

# **MS&T Materials Database**

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**Abstract:**

The database desired by the Material Science and Technology department of the Tallahassee National High Magnetic Field Laboratory was to be secure, easy to use, easily expanded, and able to hold a large number of records. The database had to be split into a front end and a back end to reduce the chance of corruption and to increase the speed at which multiple users could access the records. Access was chosen because of its straight forward design and high levels of security. Forms were created and code was written in Visual Basic to make the information easily accessible and neatly presentable. Two type of searches where created, an ordinary search where the user can type in a material name or value ranges of properties desired. Also, a graphical search was created, where the user can select two properties and see how various materials compare.



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## **Requirements:**

The Magnet Science and Technology department of the Tallahassee National High Magnetic Field Laboratory is in charge of designing and building new stronger and more powerful magnets. This involves choosing the type of magnet (pulse, direct current, or super conductor), what conducting and insulating materials to use, and what structural materials to use. A standard technique for choosing these materials consists of referencing various books, webpages, and manufacture informational packets. The database was designed to simplify the process, by being a single source with all the information desired. Information on various materials is normally compared in two ways. The first is by looking at the values of the properties of the materials individually. The other is to compare two properties at once in a graph. Both of these views were to be built into the database.

## **Normalization:**

The database itself had to follow all the standard normalization rules in order to be useful for a significant period of time. The theory of normalization was first presented by Dr. E F. Codd and its main objective is to help the database run efficiently with little data manipulation. The main rules of normalization are that fields should be as small as possible, each record should have a unique identifier, and information should not appear in more than one place (Balter 2004, 135-136). Advantages of a normalized database include the simplification of code, improved efficiency, and the simplifying of data entry. Normalization also makes the information easier to search, sort, and present (Balter 2004, 158-161).

## **Tables:**

The database that was created attempted to follow these rules by linking four different tables with relationships. A full documentation of the database can be found in appendix A. The Materials table was the root table. It contained the Unified Numbering System designation for metals and alloys (UNS Number), the common name of the material, the composition of the materials, as well as its type (conductor, insulator, structural) and application (pulse magnet, superconducting magnet, direct current magnet). The UNS Number is the primary key for this table because it is distinct and widely known. This number can be thought of as the Social Security Number of metals and alloys.

The next table is the Other Names table. It is linked in a “one to many” relationship to the Materials table by UNS Number. The Other Names table still contains its own primary key, created by an autonumber field which uniquely identifies each name in the table.

The Shape and Size Ranges table is also linked to the Materials table with the same type of relationship as the Other Names table. This table also has an autonumber field called SSR ID to identify each treatment and shape the material has been tested under.

Linked to the Shape and Size Ranges table is the Properties table. These tables are also connected by a similar “one to many” relationship, however this time the SSR ID is used to connect them. Each property record is also identifiable by its P ID, or property identity number. This is another autonumber field. In this table all the physical properties are stored as well as their temperature dependence. Also recorded is the source where the information was found.

All the record tables and all the tables required for running code are stored in a file called the Back End or BE. This file will only contain tables and a separate file is used to hold all the forms, reports, and code. This file is called the Front End or FE because it is what the user will interact with. Tables stored in the BE are linked to the FE. This is done to support a multi-user environment, reduce the chance of file or data corruption, increase security, and limit files sizes.

## **Forms:**

When a user opens the database they open the FE and a form called a switchboard automatically appears. From this form the user can go through the various options. The MS&T database switchboard currently has three options: name or property search, graphical search, or exit. The switchboard does not do anything itself, merely opens the form of the users choice.

The name or property search form allows the user to search either by name or by various property ranges. The name search works by using either the UNS number or by a name of the material. This is why all the aliases a material might have are stored in the Other Names table. The property search offers the user the chance to enter a minimum and/or a maximum values for any number of properties stored in the database. The user can also limit their search results by choosing to search only particular materials types or ones with particular applications. The results of the search can be displayed as either a report or a form. This option is given to fit the users taste. A form is much easier to scroll through on the computer however a report is better for printing and thumbing through.

The graphical search lets the user select any two properties in the database and see how the materials in the database compare with each other in a XY plot. Some other options available are limiting the ranges for X and Y as well as viewing only those materials of a particular type or application. The plot is generated by Visual Basic code and is shown in another form. This form has a title of the graph as well as scaled axes with units and a legend. Currently only eight unique shapes can be created however, modifications to the code would lead to as many as 64 unique shapes.

## **Security:**

To prevent the accidental corruption of the database by a user security was created with many different levels. The first level of security taken was to split the database into its FE and BE. Next, these files were stored in folders on the server that can only be modified by administrators of the database. The third step was to create a workgroup in Access that lists all the user names and permissions. A full description of this workgroup and the various permissions different user groups have are listed in appendix B. The Users group was given no permissions and the Admin user name was made a member of this group only to secure the database. The reason for this precaution is because Admin is the default user name for Access always and its password can be set locally on the computer. This creates a backdoor into the database; however when the Admin user is given no permissions then the database can be said to be secure. The user names User and Reader where made members of the group Read-only Users and given no passwords. These user names can then be used by any person in the department to withdraw information from the database. Another reason to give these user names no passwords is to prevent the login screen from appearing when they open the database.

All users must open the database from the shortcut they are provided by an administrator. These shortcuts tell the computer to open Access first, then which workgroup to join for the correct security settings, third, what file to open and where it can be found, and lastly what user name to login under. This prevents the user from opening the database directly which would mean that Access would not know which workgroup to join and would remain with the default on the users computer, not referencing the proper one on the server. When the user name list in the shortcut has no password, then Access automatically logs in under that user name, this prevents the user from ever seeing the login window.

The last step to protect the database is proper maintenance. All maintenance procedures are listed in appendix C. The most important procedure is the daily maintenance. This is done to create a daily backup, repair any damage that might have been done to the database throughout the day, and to compress this file size so it can continue to run efficiently. Another important procedure is for importing new data. Currently new data is copy and pasted into the in the BE after it has been properly formatted in Excel.

## **Future Improvements:**

In the future the database can be improved in a few areas. The first of which is to create form to streamline the process of importing new data and prevent errors. The tables can be further normalized. The Composition field in the Materials table is not atomic however the current data analysis shows that the denormalized structure is better for this field. Another field that is not atomic is the Test Sample Shape and Size Range field in the Shape and Size Ranges table. This field could become a lookup field to further normalize it. Lastly, while the Temperature field is atomic in the properties table

it could be changed into a lookup field as well. Another improvement would be the creation of a connection between the graphical and name and property searches. This would provide the user with more useful and customized graphs. Also an increase in the number of unique shapes that can be drawn on the graph would improve its readability.

### **Conclusions:**

The MS&T Materials Database is a stable, secure, and user friendly application that can be used for many years to come. While further improvements can be made they are not vital to the overall health of the database. By following proper maintenance procedures the database should not go out of date or become corrupted beyond repair.

## **Appendix A**

Full Documentation of the MS&T Database as of July 28, 2005

Tables.....	6
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**Properties**

Attributes:	Linked	Connect:	C:\data base\Db\BE\MST Materials Database_be.mdb
;DATABASE=\tesla\MS&T\MD&			
DateCreated:	7/26/2005 1:40:06 PM	LastUpdated:	7/26/2005 1:40:06 PM
RecordCount:	-1	SourceTableName:	Fixed Data
Updatable:	False		

**Columns**

Name	Type	Size
Common Name	Text	255
AllowZeroLength:	False	
Attributes:	Variable Length	
CollatingOrder:	General	
DataUpdatable:	False	
OrdinalPosition:	1	
Required:	False	
SourceField:	Common Name	
SourceTable:	Fixed Data	
UNS Number	Text	6
AllowZeroLength:	False	
Attributes:	Variable Length	
CollatingOrder:	General	
DataUpdatable:	False	
OrdinalPosition:	2	
Required:	False	
SourceField:	UNS Number	
SourceTable:	Fixed Data	
Material Type	Text	1
AllowZeroLength:	False	
Attributes:	Variable Length	
CollatingOrder:	General	
DataUpdatable:	False	
OrdinalPosition:	3	
Required:	False	
SourceField:	Material Type	
SourceTable:	Fixed Data	
Magnet Application	Text	3
AllowZeroLength:	False	
Attributes:	Variable Length	
CollatingOrder:	General	
DataUpdatable:	False	
OrdinalPosition:	4	
Required:	False	
SourceField:	Magnet Application	
SourceTable:	Fixed Data	
P ID	Long Integer	4
AllowZeroLength:	False	

	Attributes: CollatingOrder: DataUpdatable: OrdinalPosition: Required: SourceField: SourceTable:	Fixed Size, Auto-Increment General False 5 False P ID Fixed Data	
Temperature		Double	8
	AllowZeroLength: Attributes: CollatingOrder: DataUpdatable: OrdinalPosition: Required: SourceField: SourceTable:	False Fixed Size General False 6 False Temperature Fixed Data	
Electrical Resistivity		Double	8
	AllowZeroLength: Attributes: CollatingOrder: DataUpdatable: OrdinalPosition: Required: SourceField: SourceTable:	False Fixed Size General False 7 False Electrical Resistivity Fixed Data	
Electrical Resistivity High		Double	8
	AllowZeroLength: Attributes: CollatingOrder: DataUpdatable: OrdinalPosition: Required: SourceField: SourceTable:	False Fixed Size General False 8 False Electrical Resistivity High Fixed Data	
Thermal Conductivity		Double	8
	AllowZeroLength: Attributes: CollatingOrder: DataUpdatable: OrdinalPosition: Required: SourceField: SourceTable:	False Fixed Size General False 9 False Thermal Conductivity Fixed Data	
Thermal Conductivity High		Double	8
	AllowZeroLength: Attributes: CollatingOrder: DataUpdatable: OrdinalPosition: Required: SourceField:	False Fixed Size General False 10 False Thermal Conductivity High	

	SourceTable:	Fixed Data	
Coefficient of Thermal Expansion		Double	8
AllowZeroLength:	False		
Attributes:	Fixed Size		
CollatingOrder:	General		
DataUpdatable:	False		
OrdinalPosition:	11		
Required:	False		
SourceField:	Coefficient of Thermal Expansion		
SourceTable:	Fixed Data		
Coefficient of Thermal Expansion High		Double	8
AllowZeroLength:	False		
Attributes:	Fixed Size		
CollatingOrder:	General		
DataUpdatable:	False		
OrdinalPosition:	12		
Required:	False		
SourceField:	Coefficient of Thermal Expansion High		
SourceTable:	Fixed Data		
Young's Modulus		Double	8
AllowZeroLength:	False		
Attributes:	Fixed Size		
CollatingOrder:	General		
DataUpdatable:	False		
OrdinalPosition:	13		
Required:	False		
SourceField:	Young's Modulus		
SourceTable:	Fixed Data		
Young's Modulus High		Double	8
AllowZeroLength:	False		
Attributes:	Fixed Size		
CollatingOrder:	General		
DataUpdatable:	False		
OrdinalPosition:	14		
Required:	False		
SourceField:	Young's Modulus High		
SourceTable:	Fixed Data		
Tensile Strength		Double	8
AllowZeroLength:	False		
Attributes:	Fixed Size		
CollatingOrder:	General		
DataUpdatable:	False		
OrdinalPosition:	15		
Required:	False		
SourceField:	Tensile Strength		
SourceTable:	Fixed Data		
Tensile Strength High		Double	8
AllowZeroLength:	False		
Attributes:	Fixed Size		
CollatingOrder:	General		

	DataUpdatable:	False	
	OrdinalPosition:	16	
	Required:	False	
	SourceField:	Tensile Strength High	
	SourceTable:	Fixed Data	
Yield Strength		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	DataUpdatable:	False	
	OrdinalPosition:	17	
	Required:	False	
	SourceField:	Yield Strength	
	SourceTable:	Fixed Data	
Yield Strength High		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	DataUpdatable:	False	
	OrdinalPosition:	18	
	Required:	False	
	SourceField:	Yield Strength High	
	SourceTable:	Fixed Data	
Elongation		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	DataUpdatable:	False	
	OrdinalPosition:	19	
	Required:	False	
	SourceField:	Elongation	
	SourceTable:	Fixed Data	
Elongation High		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	DataUpdatable:	False	
	OrdinalPosition:	20	
	Required:	False	
	SourceField:	Elongation High	
	SourceTable:	Fixed Data	
Area in Reduction		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	DataUpdatable:	False	
	OrdinalPosition:	21	
	Required:	False	
	SourceField:	Area in Reduction	
	SourceTable:	Fixed Data	

Area in Reduction High	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
DataUpdatable:	False	
OrdinalPosition:	22	
Required:	False	
SourceField:	Area in Reduction High	
SourceTable:	Fixed Data	
Density	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
DataUpdatable:	False	
OrdinalPosition:	23	
Required:	False	
SourceField:	Density	
SourceTable:	Fixed Data	
Density High	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
DataUpdatable:	False	
OrdinalPosition:	24	
Required:	False	
SourceField:	Density High	
SourceTable:	Fixed Data	
Poisson's Ratio	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
DataUpdatable:	False	
OrdinalPosition:	25	
Required:	False	
SourceField:	Poisson's Ratio	
SourceTable:	Fixed Data	
Poisson's Ratio High	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
DataUpdatable:	False	
OrdinalPosition:	26	
Required:	False	
SourceField:	Poisson's Ratio High	
SourceTable:	Fixed Data	
Specific Heat	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
DataUpdatable:	False	
OrdinalPosition:	27	

Required:	False		
SourceField:	Specific Heat		
SourceTable:	Fixed Data		
Specific Heat High		Double	8
AllowZeroLength:	False		
Attributes:	Fixed Size		
CollatingOrder:	General		
DataUpdatable:	False		
OrdinalPosition:	28		
Required:	False		
SourceField:	Specific Heat High		
SourceTable:	Fixed Data		

#### User Permissions

Write	admin	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
Write	Administrator akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
	Han Reader User Xin	

#### Group Permissions

Write	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
	Backup Operators Full Data Users Full Permissions New Data Users Project Designers Read-Only Users Update Data Users Users	Read Definition, Read Data Read Permissions

### **Properties**

Attributes:	Linked ;DATABASE=\tesla\MS&T\MD&	Connect:	C\data base\Db\BE\MST Materials Database_be.mdb
DateCreated:	7/26/2005 1:40:07 PM	DefaultView:	Datasheet
LastUpdated:	7/26/2005 1:40:07 PM	NameMap:	Long binary data
OrderByOn:	False	Orientation:	Left-to-Right
RecordCount:	-1	SourceTableName:	Legand
Updatable:	False		

### **Columns**

Name	Type	Size
ID	Long Integer	4
AllowZeroLength:	False	
Attributes:	Fixed Size, Auto-Increment	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	False	
OrdinalPosition:	0	
Required:	False	
SourceField:	ID	
SourceTable:	Legand	
UNS Number	Text	50
AllowZeroLength:	True	
Attributes:	Variable Length	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	False	
Description:	UNS Number of Material	
DisplayControl:	Text Box	
IMEMode:	0	
IMESentenceMode:	3	
OrdinalPosition:	1	
Required:	False	
SourceField:	UNS Number	
SourceTable:	Legand	
UnicodeCompression:	True	
Color ID	Long Integer	4
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	False	
DecimalPlaces:	Auto	

	Description:	Color ID for graph	
	DisplayControl:	Text Box	
	OrdinalPosition:	2	
	Required:	False	
	SourceField:	Color ID	
	SourceTable:	Legand	
SSR ID		Long Integer	4
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	DecimalPlaces:	Auto	
	Description:	Shape and Size Range ID	
	DisplayControl:	Text Box	
	OrdinalPosition:	3	
	Required:	False	
	SourceField:	SSR ID	
	SourceTable:	Legand	
P ID		Long Integer	4
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	DecimalPlaces:	Auto	
	Description:	Property ID	
	DisplayControl:	Text Box	
	OrdinalPosition:	4	
	Required:	False	
	SourceField:	P ID	
	SourceTable:	Legand	

#### Table Indexes

	Name	Number of Fields
Color ID		1
	Clustered:	False
	DistinctCount:	91
	Foreign:	False
	IgnoreNulls:	False
	Name:	Color ID
	Primary:	False
	Required:	False
	Unique:	False
	Fields:	
	Color ID	Ascending
P ID		1
	Clustered:	False

	DistinctCount:	14
	Foreign:	False
	IgnoreNulls:	False
	Name:	P ID
	Primary:	False
	Required:	False
	Unique:	False
	Fields:	
	P ID	Ascending
PrimaryKey		1
	Clustered:	False
	DistinctCount:	205
	Foreign:	False
	IgnoreNulls:	False
	Name:	PrimaryKey
	Primary:	True
	Required:	True
	Unique:	True
	Fields:	
	ID	Ascending
SSR ID		1
	Clustered:	False
	DistinctCount:	14
	Foreign:	False
	IgnoreNulls:	False
	Name:	SSR ID
	Primary:	False
	Required:	False
	Unique:	False
	Fields:	
	SSR ID	Ascending

### User Permissions

Write	admin	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
Write	Administrator akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
	Han Reader User Xin	

### Group Permissions

Write	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
	Backup Operators Full Data Users Full Permissions	

New Data Users	
Project Designers	
Read-Only Users	Read Definition, Read Data, Insert Data, Update Data, Delete Data
Update Data Users	
Users	Read Permissions

### Properties

Attributes:	Linked ;DATABASE=\tesla\MS&T\MD&	Connect:	C\data base\Db\BE\MST Materials Database_be.mdb
DateCreated:	7/26/2005 1:40:08 PM	DefaultView:	Datasheet
FrozenColumns:	3	GUID:	{guid {6101CFC5-62E6-48FC-9EAF-66DBF78E2255}}
LastUpdated:	7/26/2005 1:40:08 PM	LinkChildFields:	UNS Number
LinkMasterFields:	UNS Number	NameMap:	Long binary data
OrderByOn:	True	Orientation:	Left-to-Right
RecordCount:	-1	SourceTableName:	Materials
SubdatasheetExpanded:	False	SubdatasheetHeight:	0
SubdatasheetName:	Table.Shape and Size Ranges	Updatable:	False

### Columns

Name	Type	Size
Common Name	Text	255
AllowZeroLength:	False	
Attributes:	Variable Length	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	1	
ColumnWidth:	2250	
DataUpdatable:	False	
Description:	Common name of the material	
DisplayControl:	Text Box	
GUID:	{guid {5938A279-33DE-493C-BA46-AF27986CE131}}	
IMEMode:	0	
IMESentenceMode:	3	
OrdinalPosition:	0	
Required:	True	
SourceField:	Common Name	
SourceTable:	Materials	
UnicodeCompression:	True	
UNS Number	Text	6
AllowZeroLength:	False	
Attributes:	Variable Length	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	False	
Description:	UNS designated number, also acts as the primary key	
DisplayControl:	Text Box	
GUID:	{guid {413042D0-18F0-42CC-9E42-23C14ACC9E51}}	
IMEMode:	0	
IMESentenceMode:	3	
InputMask:	L00000	
OrdinalPosition:	1	
Required:	True	
SourceField:	UNS Number	

	SourceTable:	Materials	
	UnicodeCompression:	True	
Composition		Text	255
	AllowZeroLength:	True	
	Attributes:	Variable Length	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	15540	
	DataUpdatable:	False	
	Description:	Composition of the material	
	DisplayControl:	Text Box	
	GUID:	{guid {5DC50FA0-8D01-4CBC-B90F-E843A38DAE89}}	
	IMEMode:	0	
	IMESentenceMode:	3	
	OrdinalPosition:	2	
	Required:	False	
	SourceField:	Composition	
	SourceTable:	Materials	
	UnicodeCompression:	True	
Material Type		Text	1
	AllowZeroLength:	True	
	Attributes:	Variable Length	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	Description:	Type of material (C=Conductor, I=Insulator, S=Structural) can not be combined	
	DisplayControl:	Text Box	
	GUID:	{guid {5FE0350D-BF41-4B87-91FC-5C1F09A2ED37}}	
	IMEMode:	0	
	IMESentenceMode:	3	
	InputMask:	L	
	OrdinalPosition:	3	
	Required:	False	
	SourceField:	Material Type	
	SourceTable:	Materials	
	UnicodeCompression:	True	
	ValidationRule:	='C' Or 'I' Or 'S'	
Magnet Application		Text	3
	AllowZeroLength:	True	
	Attributes:	Variable Length	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	Description:	Type of Magnet used in (D=DC, P=Pulse, S=Superconductor) can be combined (DP, DS, PS, DPS)	
	DisplayControl:	Text Box	

GUID:	{guid {B807DD23-C7A1-45B9-9316-9F799321EC43}}
IMEMode:	0
IMESentenceMode:	3
InputMask:	L??
OrdinalPosition:	4
Required:	False
SourceField:	Magnet Application
SourceTable:	Materials
UnicodeCompression:	True
ValidationRule:	Like '*D*' Or Like '*P*' Or Like '*S*'

### Relationships

#### **MaterialsShape and Size Ranges**

<b>Materials</b>	<b>Shape and Size Ranges</b>
UNS Number	UNS Number
Attributes: RelationshipType:	Not Enforced, Left Join One-To-Many

### Table Indexes

	Name	Number of Fields
Common Name		1
Clustered:	False	
DistinctCount:	182	
Foreign:	False	
IgnoreNulls:	False	
Name:	Common Name	
Primary:	False	
Required:	False	
Unique:	False	
Fields:		
Common Name	Ascending	
PrimaryKey		1
Clustered:	False	
DistinctCount:	193	
Foreign:	False	
IgnoreNulls:	False	
Name:	PrimaryKey	
Primary:	True	
Required:	True	
Unique:	True	
Fields:		
UNS Number	Ascending	

### User Permissions

	admin	
	Administrator	
	akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
Write		Definition, Read Data, Insert Data, Update Data, Delete Data
	Han	
	Reader	
	User	
	Xin	

**Group Permissions**

	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
Write		Definition, Read Data, Insert Data, Update Data, Delete Data
	Backup Operators	
	Full Data Users	
	Full Permissions	
	New Data Users	
	Project Designers	
	Read-Only Users	Read Definition, Read Data
	Update Data Users	
	Users	Read Permissions

### Properties

Attributes:	Linked ;DATABASE=\tesla\MS&T\MD&	Connect:	C\data base\Db\BE\MST Materials Database_be.mdb
DateCreated:	7/26/2005 1:40:08 PM	DefaultView:	Datasheet
GUID:	{guid {CAA4B2F3-5318-4236-82DD-A51F5119F7A7}}	LastUpdated:	7/26/2005 1:40:08 PM
NameMap:	Long binary data	OrderByOn:	False
Orientation:	Left-to-Right	RecordCount:	-1
SourceTableName:	Other Names	SubdatasheetName:	[None]
Updatable:	False		

### Columns

Name	Type	Size
ID	Long Integer	4
AllowZeroLength:	False	
Attributes:	Fixed Size, Auto-Increment	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	1	
ColumnWidth:	420	
DataUpdatable:	False	
Description:	Autonumber as primary key	
GUID:	{guid {7B0950C3-339E-40C5-8C2E-DBC4D18D3096}}	
OrdinalPosition:	0	
Required:	False	
SourceField:	ID	
SourceTable:	Other Names	
UNS Number	Text	6
AllowZeroLength:	True	
Attributes:	Variable Length	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	False	
Description:	Material identifier	
DisplayControl:	Text Box	
GUID:	{guid {9B794E6F-909A-49E3-96AD-E642487CD17D}}	
IMEMode:	0	
IMESentenceMode:	3	
InputMask:	L00000	
OrdinalPosition:	1	
Required:	False	
SourceField:	UNS Number	
SourceTable:	Other Names	
UnicodeCompression:	True	
Name	Text	255
AllowZeroLength:	True	
Attributes:	Variable Length	

CollatingOrder:	General
ColumnHidden:	False
ColumnOrder:	Default
ColumnWidth:	3285
DataUpdatable:	False
Description:	Another Name of that material
DisplayControl:	Text Box
GUID:	{guid {36700D16-6973-46F0-87DF-D41763185B11}}
IMEMode:	0
IMESentenceMode:	3
OrdinalPosition:	2
Required:	False
SourceField:	Name
SourceTable:	Other Names
UnicodeCompression:	True

### Table Indexes

	Name	Number of Fields
ID		1
	Clustered:	False
	DistinctCount:	86
	Foreign:	False
	IgnoreNulls:	False
	Name:	ID
	Primary:	False
	Required:	False
	Unique:	False
	Fields:	
	ID	Ascending
Other NamesUNS Number		1
	Clustered:	False
	DistinctCount:	63
	Foreign:	False
	IgnoreNulls:	False
	Name:	Other NamesUNS Number
	Primary:	False
	Required:	False
	Unique:	False
	Fields:	
	UNS Number	Ascending
PrimaryKey		1
	Clustered:	False
	DistinctCount:	86
	Foreign:	False
	IgnoreNulls:	False
	Name:	PrimaryKey
	Primary:	True
	Required:	True
	Unique:	True
	Fields:	
	ID	Ascending

**User Permissions**

	admin	
	Administrator	
	akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
Write	Han	Definition, Read Data, Insert Data, Update Data, Delete Data
	Reader	
	User	
	Xin	

**Group Permissions**

	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
Write		Definition, Read Data, Insert Data, Update Data, Delete Data
	Backup Operators	
	Full Data Users	
	Full Permissions	
	New Data Users	
	Project Designers	
	Read-Only Users	Read Definition, Read Data
	Update Data Users	
	Users	Read Permissions

### Properties

Attributes:	Linked ;DATABASE=\tesla\MS&T\MD&	Connect:	C\data base\Db\BE\MST Materials Database_be.mdb
DateCreated:	7/26/2005 1:40:09 PM	DefaultView:	Datasheet
FrozenColumns:	2	GUID:	{guid {81E31C41-F02C-4022-9B64-7773932F901B}}
LastUpdated:	7/26/2005 1:40:09 PM	NameMap:	Long binary data
OrderByOn:	True	Orientation:	Left-to-Right
RecordCount:	-1	SourceTableName:	Properties
Updatable:	False		

### Columns

Name	Type	Size
P ID	Long Integer	4
SSR ID	Long Integer	4
Temperature	Double	8

AllowZeroLength:	False
Attributes:	Fixed Size, Auto-Increment
CollatingOrder:	General
ColumnHidden:	False
ColumnOrder:	Default
ColumnWidth:	555
DataUpdatable:	False
Description:	Autonumber to use as an ID tag
GUID:	{guid {A8681B9D-9E00-4F56-99D8-85DC34F455B4}}
OrdinalPosition:	0
Required:	False
SourceField:	P ID
SourceTable:	Properties

  

AllowZeroLength:	False
Attributes:	Fixed Size
CollatingOrder:	General
ColumnHidden:	False
ColumnOrder:	Default
ColumnWidth:	735
DataUpdatable:	False
DecimalPlaces:	Auto
Description:	ID tag to relate properties to the correct test sample shape and size range
DisplayControl:	Text Box
GUID:	{guid {7830620A-57BA-4691-9767-300C905CE740}}
OrdinalPosition:	1
Required:	False
SourceField:	SSR ID
SourceTable:	Properties

  

AllowZeroLength:	False
Attributes:	Fixed Size
CollatingOrder:	General

	ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	False Default Default False Auto Temperature of the materials when the properties were measured Text Box {guid {69D8D6DB-055E-414D-ABE8-8C68F397DBE7}} 2 True Temperature Properties	
Electrical Resistivity		Double	8
AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description:	False Fixed Size General False Default Default False Auto Measure of the electrical resistivity in microohm centimeters (low end of range)		
DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	Text Box {guid {54662803-7F4B-4D9B-8719-82CA2773D074}} 3 False Electrical Resistivity Properties		
Electrical Resistivity High		Double	8
AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	False Fixed Size General False Default Default False Auto (High end of range) Text Box {guid {4C4A6FAB-DE44-461C-A6AB-AF80288C9560}} 4 False Electrical Resistivity High Properties		
Thermal Conductivity		Double	8
AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth:	False Fixed Size General False Default Default		

	DataUpdatable:	False	
	DecimalPlaces:	Auto	
	Description:	Measure of the thermal conductivity in watts per meters Kelvin (low end of range)	
end	DisplayControl:	Text Box	
	GUID:	{guid {A8FD2A1B-F959-4347-902F-A8142A6AFC94}}	
	OrdinalPosition:	5	
	Required:	False	
	SourceField:	Thermal Conductivity	
	SourceTable:	Properties	
Thermal Conductivity High		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	DecimalPlaces:	Auto	
	Description:	(High end of range)	
	DisplayControl:	Text Box	
	GUID:	{guid {0AB4DDC2-8457-45FB-B457-8391FAC91A5B}}	
	OrdinalPosition:	6	
	Required:	False	
	SourceField:	Thermal Conductivity High	
	SourceTable:	Properties	
Coefficient of Thermal Expansion		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	DecimalPlaces:	Auto	
	Description:	Coefficient of thermal expansion in micrometers per meter Kelvin (low end of range)	
	DisplayControl:	Text Box	
	GUID:	{guid {FCCAD6A9-0456-4980-9343-B3BCE2471C97}}	
	OrdinalPosition:	7	
	Required:	False	
	SourceField:	Coefficient of Thermal Expansion	
	SourceTable:	Properties	
Coefficient of Thermal Expansion High		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	DecimalPlaces:	Auto	

Description:	(High end of range)	
DisplayControl:	Text Box	
GUID:	{guid {A1C6BCC5-4DFD-404C-8A26-1B783514A60D}}	
OrdinalPosition:	8	
Required:	False	
SourceField:	Coefficient of Thermal Expansion High	
SourceTable:	Properties	
Young's Modulus	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	False	
DecimalPlaces:	Auto	
Description:	Measure of the Young's modulus in gigapascals (low end of range)	
DisplayControl:	Text Box	
GUID:	{guid {FBCD272A-4C70-4943-BD1A-2E058D9E1EB2}}	
OrdinalPosition:	9	
Required:	False	
SourceField:	Young's Modulus	
SourceTable:	Properties	
Young's Modulus High	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	False	
DecimalPlaces:	Auto	
Description:	(High end of range)	
DisplayControl:	Text Box	
GUID:	{guid {2F64745A-CE57-4156-9391-F884010A5F8E}}	
OrdinalPosition:	10	
Required:	False	
SourceField:	Young's Modulus High	
SourceTable:	Properties	
Tensile Strength	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	False	
DecimalPlaces:	Auto	
Description:	Measure of the tensile strength in megapascals (low end of range)	
DisplayControl:	Text Box	
GUID:	{guid {AA914F3A-91BA-4CA6-97D5-46915ECE4102}}	
OrdinalPosition:	11	
Required:	False	

	SourceField:	Tensile Strength	
	SourceTable:	Properties	
Tensile Strength High			
AllowZeroLength:	False		
Attributes:	Fixed Size		
CollatingOrder:	General		
ColumnHidden:	False		
ColumnOrder:	Default		
ColumnWidth:	Default		
DataUpdatable:	False		
DecimalPlaces:	Auto		
Description:	(High end of range)		
DisplayControl:	Text Box		
GUID:	{guid {7C13C71E-5259-45D7-A5CB-D647A1F78BB6}}		
OrdinalPosition:	12		
Required:	False		
SourceField:	Tensile Strength High		
SourceTable:	Properties		
Yield Strength		Double	8
AllowZeroLength:	False		
Attributes:	Fixed Size		
CollatingOrder:	General		
ColumnHidden:	False		
ColumnOrder:	Default		
ColumnWidth:	Default		
DataUpdatable:	False		
DecimalPlaces:	Auto		
Description:	Measure of the yield strength in megapascals (low end of range)		
DisplayControl:	Text Box		
GUID:	{guid {4FD187C7-7FE5-4E92-B6A5-12993A550DD2}}		
OrdinalPosition:	13		
Required:	False		
SourceField:	Yield Strength		
SourceTable:	Properties		
Yield Strength High		Double	8
AllowZeroLength:	False		
Attributes:	Fixed Size		
CollatingOrder:	General		
ColumnHidden:	False		
ColumnOrder:	Default		
ColumnWidth:	Default		
DataUpdatable:	False		
DecimalPlaces:	Auto		
Description:	(High end of range)		
DisplayControl:	Text Box		
GUID:	{guid {E2A38495-2D8F-4B52-B0BC-032CBD1AD651}}		
OrdinalPosition:	14		
Required:	False		
SourceField:	Yield Strength High		
SourceTable:	Properties		
Elongation		Double	8
AllowZeroLength:	False		

	Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	Fixed Size General False Default Default False Auto Measure of the elongation in percents (low end of range) Text Box {guid {51B21D6F-EF54-46FF-A5D0-6466C48D8729}} 15 False Elongation Properties	
Elongation High	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	Double False Fixed Size General False Default Default False Auto (High end of range) Text Box {guid {AD723131-56F3-4B90-BE0D-8053696AAC4E}} 16 False Elongation High Properties	8
Area in Reduction	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	Double False Fixed Size General False Default Default False Auto Measure of the area in reduction in percents (low end of range) Text Box {guid {8E803F26-45B1-4377-BC3D-6E646721F689}} 17 False Area in Reduction Properties	8
Area in Reduction High	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth:	Double False Fixed Size General False Default Default	8

	DataUpdatable:	False	
	DecimalPlaces:	Auto	
	Description:	(High end of range)	
	DisplayControl:	Text Box	
	GUID:	{guid {FC9AD789-77FC-4442-AF0C-5D9A7722E2E7}}	
	OrdinalPosition:	18	
	Required:	False	
	SourceField:	Area in Reduction High	
	SourceTable:	Properties	
Density		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	DecimalPlaces:	Auto	
	Description:	Measure of the density in grams pre cubic centimeter (low end of range)	
	DisplayControl:	Text Box	
	GUID:	{guid {DE686984-18C7-4B0A-BAA4-58D29EA47526}}	
	OrdinalPosition:	19	
	Required:	False	
	SourceField:	Density	
	SourceTable:	Properties	
Density High		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	DecimalPlaces:	Auto	
	Description:	(High end of range)	
	DisplayControl:	Text Box	
	GUID:	{guid {1F02D7FB-B290-4EA0-A6E3-4163472CA214}}	
	OrdinalPosition:	20	
	Required:	False	
	SourceField:	Density High	
	SourceTable:	Properties	
Poisson's Ratio		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	DecimalPlaces:	Auto	
	Description:	Measure of the poisson's ratio (low end of range)	

	DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	Text Box {guid {3AC26603-1456-4A2B-8461-F5997D45D3E0}} 21 False Poisson's Ratio Properties		
Poisson's Ratio High		Double		8
	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	False Fixed Size General False Default Default False Auto (High end of range) Text Box {guid {7FAE7C65-164E-4EEB-AF8C-9F71B709D0E4}} 22 False Poisson's Ratio High Properties		
Specific Heat		Double		8
	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	False Fixed Size General False Default Default False Auto Measure of the specific heat in joules per kilogram Kelvin (low end of range) Text Box {guid {063F9A09-81D6-43C5-B8E1-5EC1AA2B3260}} 23 False Specific Heat Properties		
Specific Heat High		Double		8
	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition:	False Fixed Size General False Default Default False Auto (High end of range) Text Box {guid {A4A4B302-7FE9-460F-ACB7-216B62660F0F}} 24		

Required:	False
SourceField:	Specific Heat High
SourceTable:	Properties
References	Text
AllowZeroLength:	False
Attributes:	Variable Length
CollatingOrder:	General
ColumnHidden:	False
ColumnOrder:	Default
ColumnWidth:	3015
DataUpdatable:	False
Description:	Sources used to find the properties (low end of range)
DisplayControl:	Text Box
GUID:	{guid {E5BDAE89-EC4A-4477-8030-7A76714FB087}}
IMEMode:	0
IMESentenceMode:	3
OrdinalPosition:	25
Required:	True
SourceField:	References
SourceTable:	Properties
UnicodeCompression:	True

## Relationships

### **Shape and Size RangesProperties**

<b>Shape and Size Ranges</b>	<b>Properties</b>
SSR ID	SSR ID
Attributes:	Not Enforced, Left Join
RelationshipType:	One-To-Many

## Table Indexes

Name	Number of Fields
ID	1
Clustered:	False
DistinctCount:	247
Foreign:	False
IgnoreNulls:	False
Name:	ID
Primary:	False
Required:	False
Unique:	True
Fields:	
P ID	Ascending
PrimaryKey	1
Clustered:	False
DistinctCount:	247
Foreign:	False
IgnoreNulls:	False

	Name:	PrimaryKey
	Primary:	True
	Required:	True
	Unique:	True
	Fields:	
	P ID	Ascending
SSR ID		1
	Clustered:	False
	DistinctCount:	133
	Foreign:	False
	IgnoreNulls:	False
	Name:	SSR ID
	Primary:	False
	Required:	False
	Unique:	False
	Fields:	
	SSR ID	Ascending
Temperature (°C)		1
	Clustered:	False
	DistinctCount:	19
	Foreign:	False
	IgnoreNulls:	False
	Name:	Temperature (°C)
	Primary:	False
	Required:	False
	Unique:	False
	Fields:	
	Temperature	Ascending

#### User Permissions

	admin	
	Administrator	
	akorinda	
Write		Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
	Han	
	Reader	
	User	
	Xin	

#### Group Permissions

	Admins	
Write		Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
	Backup Operators	
	Full Data Users	
	Full Permissions	
	New Data Users	
	Project Designers	
	Read-Only Users	Read Definition, Read Data
	Update Data Users	

Users

Read Permissions

### Properties

Attributes:	Linked ;DATABASE=\tesla\MS&T\MD&	Connect:	C\data base\Db\BE\MST Materials Database_be.mdb
DateCreated:	7/26/2005 1:40:10 PM	DefaultView:	Datasheet
GUID:	{guid {4B686586-E91C-493E-A528-46557197D000}}	LastUpdated:	7/26/2005 1:40:10 PM
NameMap:	Long binary data	OrderByOn:	False
Orientation:	Left-to-Right	RecordCount:	-1
SourceTableName:	Property List	Updatable:	False

### Columns

	Name	Type	Size
ID		Long Integer	4
	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: GUID: OrdinalPosition: Required: SourceField: SourceTable:	False Fixed Size, Auto-Increment General False Default Default False {guid {EB4A69C7-0AB1-460A-A322-4A469A5A500D}} 0 False ID Property List	
Property		Text	50
	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: Description: DisplayControl: GUID: IMEMode: IMESentenceMode: OrdinalPosition: Required: SourceField: SourceTable: UnicodeCompression:	True Variable Length General False Default 3795 False Name of Property Text Box {guid {E0A84CC7-0323-4F4F-B552-EF037DF11127}} 0 3 1 False Property Property List True	
Units		Text	10
	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder:	True Variable Length General False Default	

ColumnWidth:	Default
DataUpdatable:	False
Description:	Units of Property
DisplayControl:	Text Box
GUID:	{guid {C9497528-0E9A-46BF-9632-A16F0DD1E900}}
IMEMode:	0
IMESentenceMode:	3
OrdinalPosition:	2
Required:	False
SourceField:	Units
SourceTable:	Property List
UnicodeCompression:	True

#### **Table Indexes**

Name	Number of Fields
PrimaryKey	1
Clustered:	False
DistinctCount:	11
Foreign:	False
IgnoreNulls:	False
Name:	PrimaryKey
Primary:	True
Required:	True
Unique:	True
Fields:	
ID	Ascending

#### **User Permissions**

Write	admin	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
Write	Administrator	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
Write	akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
	Han	
	Reader	
	User	
	Xin	

#### **Group Permissions**

Write	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
	Backup Operators	
	Full Data Users	
	Full Permissions	
	New Data Users	
	Project Designers	
	Read-Only Users	Read Definition, Read Data
	Update Data Users	

Users

Read Permissions

### Properties

Attributes:	Linked ;DATABASE=\tesla\MS&T\MD&	Connect:	C\data base\Db\BE\MST Materials Database_be.mdb
DateCreated:	7/26/2005 1:40:10 PM	DefaultView:	Datasheet
GUID:	{guid {12D82445-3E27-4368-9806-F56053F89DE7}}	LastUpdated:	7/26/2005 1:40:10 PM
NameMap:	Long binary data	OrderByOn:	True
Orientation:	Left-to-Right	RecordCount:	-1
SourceTableName:	Shape and Size Ranges	SubdatasheetExpanded:	False
SubdatasheetHeight:	0	Updatable:	False

### Columns

Name	Type	Size
SSR ID	Long Integer	4
AllowZeroLength:	False	
Attributes:	Fixed Size, Auto-Increment	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	765	
DataUpdatable:	False	
Description:	Autonumber to use as an ID tag and primary key	
GUID:	{guid {9F3F3847-2619-4E5A-ACB1-B94C8262AC1B}}	
OrdinalPosition:	0	
Required:	False	
SourceField:	SSR ID	
SourceTable:	Shape and Size Ranges	
UNS Number	Text	6
AllowZeroLength:	False	
Attributes:	Variable Length	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	False	
Description:	Material identifier	
DisplayControl:	Text Box	
GUID:	{guid {2D1E7B07-7525-4E11-86D3-FEF5DB109BEF}}	
IMEMode:	0	
IMESentenceMode:	3	
InputMask:	L00000	
OrdinalPosition:	1	
Required:	True	
SourceField:	UNS Number	
SourceTable:	Shape and Size Ranges	
UnicodeCompression:	True	
Test Sample Shape and Size Range	Text	255
AllowZeroLength:	True	
Attributes:	Variable Length	

CollatingOrder:	General
ColumnHidden:	False
ColumnOrder:	Default
ColumnWidth:	4800
DataUpdatable:	False
Description:	Test sample shape and size range
DisplayControl:	Text Box
GUID:	{guid {91899609-9539-44CB-B679-F109E3F2C8AC}}
IMEMode:	0
IMESentenceMode:	3
OrdinalPosition:	2
Required:	False
SourceField:	Test Sample Shape and Size Range
SourceTable:	Shape and Size Ranges
UnicodeCompression:	True

### **Relationships**

#### **MaterialsShape and Size Ranges**

<b>Materials</b>	<b>Shape and Size Ranges</b>
UNS Number	UNS Number
Attributes: RelationshipType:	Not Enforced, Left Join One-To-Many

#### **Shape and Size RangesProperties**

<b>Shape and Size Ranges</b>	<b>Properties</b>
SSR ID	SSR ID
Attributes: RelationshipType:	Not Enforced, Left Join One-To-Many

### **Table Indexes**

Name	Number of Fields
ID	1
Clustered:	False
DistinctCount:	141
Foreign:	False
IgnoreNulls:	False
Name:	ID
Primary:	False
Required:	False
Unique:	True
Fields:	
SSR ID	Ascending
PrimaryKey	1
Clustered:	False

DistinctCount:	141
Foreign:	False
IgnoreNulls:	False
Name:	PrimaryKey
Primary:	True
Required:	True
Unique:	True
Fields:	
SSR ID	Ascending
Shape and Size RangesUNS Number	1
Clustered:	False
DistinctCount:	66
Foreign:	False
IgnoreNulls:	False
Name:	Shape and Size RangesUNS Number
Primary:	False
Required:	False
Unique:	False
Fields:	
UNS Number	Ascending

#### User Permissions

Write	admin Administrator akorinda  Han Reader User Xin	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
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#### Group Permissions

Write	Admins  Backup Operators Full Data Users Full Permissions New Data Users Project Designers Read-Only Users Update Data Users Users	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data  Read Definition, Read Data Read Permissions
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### Properties

Attributes:	Linked ;DATABASE=\tesla\MS&T\MD&	Connect:	C\data base\Db\BE\MST Materials Database_be.mdb
DateCreated:	7/26/2005 1:40:11 PM	DefaultView:	Datasheet
GUID:	{guid {3F3B6C78-D45A-4D46-8BE1-14FCDD7327AA}}	LastUpdated:	7/26/2005 1:40:12 PM
NameMap:	Long binary data	OrderByOn:	True
Orientation:	Left-to-Right	RecordCount:	-1
SourceTableName:	Switchboard Items	Updatable:	False

### Columns

Name	Type	Size
SwitchboardID	Long Integer	4
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	False	
DecimalPlaces:	Auto	
DisplayControl:	Text Box	
GUID:	{guid {2401E923-3422-4611-97FC-E1D8BDE09D1A}}	
OrdinalPosition:	0	
Required:	False	
SourceField:	SwitchboardID	
SourceTable:	Switchboard Items	
ItemNumber	Integer	2
AllowZeroLength:	False	
Attributes:	Fixed Size	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	False	
DecimalPlaces:	Auto	
DisplayControl:	Text Box	
GUID:	{guid {A9E19649-5446-4194-9FB0-CF4693056702}}	
OrdinalPosition:	1	
Required:	False	
SourceField:	ItemNumber	
SourceTable:	Switchboard Items	
ItemText	Text	255
AllowZeroLength:	False	
Attributes:	Variable Length	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	

	DataUpdatable:	False	
	DisplayControl:	Text Box	
	GUID:	{guid {D041DA83-B900-4150-BCE8-506E9DAE1FA1}}	
	IMEMode:	0	
	IMESentenceMode:	3	
	OrdinalPosition:	2	
	Required:	False	
	SourceField:	ItemText	
	SourceTable:	Switchboard Items	
	UnicodeCompression:	False	
Command		Integer	2
	AllowZeroLength:	False	
	Attributes:	Fixed Size	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	DecimalPlaces:	Auto	
	DisplayControl:	Text Box	
	GUID:	{guid {31D69591-5CE9-4B2C-91B3-22E41D1624F3}}	
	OrdinalPosition:	3	
	Required:	False	
	SourceField:	Command	
	SourceTable:	Switchboard Items	
Argument		Text	255
	AllowZeroLength:	True	
	Attributes:	Variable Length	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	False	
	DisplayControl:	Text Box	
	GUID:	{guid {0BFD8FB7-DDE8-400D-99BF-336F8A330CE9}}	
	IMEMode:	0	
	IMESentenceMode:	3	
	OrdinalPosition:	4	
	Required:	False	
	SourceField:	Argument	
	SourceTable:	Switchboard Items	
	UnicodeCompression:	False	

### Table Indexes

Name	Number of Fields
PrimaryKey	2
Clustered:	False
DistinctCount:	4
Foreign:	False
IgnoreNulls:	False
Name:	PrimaryKey
Primary:	True

Required:	True
Unique:	True
Fields:	
SwitchboardID	Ascending
ItemNumber	Ascending

### **User Permissions**

	admin	
	Administrator	
	akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
Write	Han	Definition, Read Data, Insert Data, Update Data, Delete Data
	Reader	
	User	
	Xin	

### **Group Permissions**

	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
Write		Definition, Read Data, Insert Data, Update Data, Delete Data
	Backup Operators	
	Full Data Users	
	Full Permissions	
	New Data Users	
	Project Designers	
	Read-Only Users	Read Definition, Read Data
	Update Data Users	
	Users	Read Permissions

### **Properties**

DateCreated:	7/15/2005 2:59:16 PM	DOL:	Long binary data
GUID:	{guid {C85FF0A4-9D7E-4D52-A493-AB7CBFC8A85B}}	LastUpdated:	7/15/2005 3:00:28 PM
MaxRecords:	0	ODBCTimeout:	60
Orientation:	Left-to-Right	RecordLocks:	Edited Record
RecordsAffected:	0	ReturnsRecords:	True
Type:	80	Updatable:	True
UseTransaction:	True		

### **SQL**

```
SELECT Materials.[Common Name], Materials.[UNS Number], Materials.[Material Type], Materials.[Magnet Application], Properties.[P ID], Properties.Temperature, Properties.[Electrical Resistivity], Properties.[Electrical Resistivity High], Properties.[Thermal Conductivity], Properties.[Thermal Conductivity High], Properties.[Coefficient of Thermal Expansion], Properties.[Coefficient of Thermal Expansion High], Properties.[Young's Modulus], Properties.[Young's Modulus High], Properties.[Tensile Strength], Properties.[Tensile Strength High], Properties.[Yield Strength], Properties.[Yield Strength High], Properties.Elongation, Properties.[Elongation High], Properties.[Area in Reduction], Properties.[Area in Reduction High], Properties.Density, Properties.[Density High], Properties.[Poisson's Ratio], Properties.[Poisson's Ratio High], Properties.[Specific Heat], Properties.[Specific Heat] INTO [Fixed Data] IN 'C:\Documents and Settings\cir106\Desktop\Personal Backup\BE\MST Materials Database_be.mdb'  
FROM (Materials INNER JOIN [Shape and Size Ranges] ON Materials.[UNS Number]=[Shape and Size Ranges].[UNS Number]) INNER JOIN Properties ON [Shape and Size Ranges].[SSR ID]=Properties.[SSR ID];
```

### **User Permissions**

Write	admin	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
Write	Administrator akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
	Han Reader User Xin	

### **Group Permissions**

Write	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Read Data, Insert Data, Update Data, Delete Data
	Backup Operators Full Data Users Full Permissions New Data Users Project Designers Read-Only Users	

Update Data Users  
Users

Read Permissions

**Properties**

DateCreated:	7/15/2005 2:48:35 PM	DefaultView:	Datasheet
DOL:	Long binary data	GUID:	{guid {B0633B13-46E9-419C-B6D4-B9892C52ACE8}}
LastUpdated:	7/26/2005 2:40:56 PM	MaxRecords:	0
ODBCTimeout:	60	OrderByOn:	False
Orientation:	Left-to-Right	RecordLocks:	No Locks
RecordsAffected:	0	RecordsetType:	Dynaset
ReturnsRecords:	True	Type:	0
Updatable:	True		

**SQL**

```
SELECT Materials.* , [Shape and Size Ranges].[Test Sample Shape and Size Range], Properties.*  
FROM (Materials INNER JOIN [Shape and Size Ranges] ON [Materials].[UNS Number]=[Shape and Size  
Ranges].[UNS Number]) INNER JOIN Properties ON [Shape and Size Ranges].[SSR ID]=[Properties].[SSR ID];
```

**Columns**

Name	Type	Size
Common Name	Text	255
AllowZeroLength:	False	
Attributes:	Variable Length, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	1	
ColumnWidth:	2250	
DataUpdatable:	True	
Description:	Common name of the material	
DisplayControl:	Text Box	
GUID:	{guid {5938A279-33DE-493C-BA46-AF27986CE131}}	
IMEMode:	0	
IMESentenceMode:	3	
OrdinalPosition:	0	
Required:	True	
SourceField:	Common Name	
SourceTable:	Materials	
UnicodeCompression:	True	
UNS Number	Text	6
AllowZeroLength:	False	
Attributes:	Variable Length, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	True	
Description:	UNS designated number, also acts as the primary key	
DisplayControl:	Text Box	
GUID:	{guid {413042D0-18F0-42CC-9E42-23C14ACC9E51}}	
IMEMode:	0	
IMESentenceMode:	3	
InputMask:	L00000	

OrdinalPosition:	1	
Required:	True	
SourceField:	UNS Number	
SourceTable:	Materials	
UnicodeCompression:	True	
Composition	Text	255
AllowZeroLength:	True	
Attributes:	Variable Length, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	15540	
DataUpdatable:	True	
Description:	Composition of the material	
DisplayControl:	Text Box	
GUID:	{guid {5DC50FA0-8D01-4CBC-B90F-E843A38DAE89}}	
IMEMode:	0	
IMESentenceMode:	3	
OrdinalPosition:	2	
Required:	False	
SourceField:	Composition	
SourceTable:	Materials	
UnicodeCompression:	True	
Material Type	Text	1
AllowZeroLength:	True	
Attributes:	Variable Length, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	True	
Description:	Type of material (C=Conductor, I=Insulator, S=Structural) can not be combined	
DisplayControl:	Text Box	
GUID:	{guid {5FE0350D-BF41-4B87-91FC-5C1F09A2ED37}}	
IMEMode:	0	
IMESentenceMode:	3	
InputMask:	L	
OrdinalPosition:	3	
Required:	False	
SourceField:	Material Type	
SourceTable:	Materials	
UnicodeCompression:	True	
ValidationRule:	='C' Or 'I' Or 'S'	
Magnet Application	Text	3
AllowZeroLength:	True	
Attributes:	Variable Length, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	True	

Description:	Type of Magnet used in (D=DC, P=Pulse, S=Superconductor) can be combined (DP, DS, PS, DPS)
DisplayControl:	Text Box
GUID:	{guid {B807DD23-C7A1-45B9-9316-9F799321EC43}}
IMEMode:	0
IMESentenceMode:	3
InputMask:	L??
OrdinalPosition:	4
Required:	False
SourceField:	Magnet Application
SourceTable:	Materials
UnicodeCompression:	True
ValidationRule:	Like '*D*' Or Like '*P*' Or Like '*S*'

		Text	255
Test Sample Shape and Size Range			
AllowZeroLength:	True		
Attributes:	Variable Length, Updatable		
CollatingOrder:	General		
ColumnHidden:	False		
ColumnOrder:	Default		
ColumnWidth:	4800		
DataUpdatable:	True		
Description:	Test sample shape and size range		
DisplayControl:	Text Box		
GUID:	{guid {91899609-9539-44CB-B679-F109E3F2C8AC}}		
IMEMode:	0		
IMESentenceMode:	3		
OrdinalPosition:	5		
Required:	False		
SourceField:	Test Sample Shape and Size Range		
SourceTable:	Shape and Size Ranges		
UnicodeCompression:	True		
P ID		Long Integer	4
AllowZeroLength:	False		
Attributes:	Fixed Size, Auto-Increment, Updatable		
CollatingOrder:	General		
ColumnHidden:	False		
ColumnOrder:	Default		
ColumnWidth:	555		
DataUpdatable:	True		
Description:	Autonumber to use as an ID tag		
GUID:	{guid {A8681B9D-9E00-4F56-99D8-85DC34F455B4}}		
OrdinalPosition:	6		
Required:	False		
SourceField:	P ID		
SourceTable:	Properties		
SSR ID		Long Integer	4
AllowZeroLength:	False		
Attributes:	Fixed Size, Updatable		
CollatingOrder:	General		
ColumnHidden:	False		
ColumnOrder:	Default		
ColumnWidth:	735		

	DataUpdatable:	True	
	DecimalPlaces:	Auto	
	Description:	ID tag to relate properties to the correct test sample shape and size range	
	DisplayControl:	Text Box	
	GUID:	{guid {7830620A-57BA-4691-9767-300C905CE740}}	
	OrdinalPosition:	7	
	Required:	False	
	SourceField:	SSR ID	
	SourceTable:	Properties	
Temperature		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size, Updatable	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	True	
	DecimalPlaces:	Auto	
	Description:	Temperature of the materials when the properties were measured	
	DisplayControl:	Text Box	
	GUID:	{guid {69D8D6DB-055E-414D-ABE8-8C68F397DBE7}}	
	OrdinalPosition:	8	
	Required:	True	
	SourceField:	Temperature	
	SourceTable:	Properties	
Electrical Resistivity		Double	8
of	AllowZeroLength:	False	
	Attributes:	Fixed Size, Updatable	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	True	
	DecimalPlaces:	Auto	
	Description:	Measure of the electrical resistivity in microohm centimeters (low end range)	
	DisplayControl:	Text Box	
	GUID:	{guid {54662803-7F4B-4D9B-8719-82CA2773D074}}	
	OrdinalPosition:	9	
	Required:	False	
	SourceField:	Electrical Resistivity	
	SourceTable:	Properties	
Electrical Resistivity High		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size, Updatable	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	True	
	DecimalPlaces:	Auto	

Description:	(High end of range)	
DisplayControl:	Text Box	
GUID:	{guid {4C4A6FAB-DE44-461C-A6AB-AF80288C9560}}	
OrdinalPosition:	10	
Required:	False	
SourceField:	Electrical Resistivity High	
SourceTable:	Properties	
Thermal Conductivity	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	True	
DecimalPlaces:	Auto	
Description:	Measure of the thermal conductivity in watts per meters Kelvin (low of range)	
DisplayControl:	Text Box	
GUID:	{guid {A8FD2A1B-F959-4347-902F-A8142A6AFC94}}	
OrdinalPosition:	11	
Required:	False	
SourceField:	Thermal Conductivity	
SourceTable:	Properties	
Thermal Conductivity High	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	True	
DecimalPlaces:	Auto	
Description:	(High end of range)	
DisplayControl:	Text Box	
GUID:	{guid {0AB4DDC2-8457-45FB-B457-8391FAC91A5B}}	
OrdinalPosition:	12	
Required:	False	
SourceField:	Thermal Conductivity High	
SourceTable:	Properties	
Coefficient of Thermal Expansion	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	True	
DecimalPlaces:	Auto	
Description:	Coefficient of thermal expansion in micrometers per meter Kelvin (low end of range)	
DisplayControl:	Text Box	

GUID:	{guid {FCCAD6A9-0456-4980-9343-B3BCE2471C97}}	
OrdinalPosition:	13	
Required:	False	
SourceField:	Coefficient of Thermal Expansion	
SourceTable:	Properties	
 Coefficient of Thermal Expansion High		
AllowZeroLength:	Double	8
Attributes:	False	
CollatingOrder:	Fixed Size, Updatable	
ColumnHidden:	General	
ColumnOrder:	False	
ColumnWidth:	Default	
DataUpdatable:	Default	
DecimalPlaces:	True	
Description:	Auto	
DisplayControl:	(High end of range)	
GUID:	Text Box	
OrdinalPosition:	{guid {A1C6BCC5-4DFD-404C-8A26-1B783514A60D}}	
Required:	14	
SourceField:	False	
SourceTable:	Coefficient of Thermal Expansion High	
 Properties		
 Young's Modulus		
AllowZeroLength:	Double	8
Attributes:	False	
CollatingOrder:	Fixed Size, Updatable	
ColumnHidden:	General	
ColumnOrder:	False	
ColumnWidth:	Default	
DataUpdatable:	Default	
DecimalPlaces:	True	
Description:	Auto	
DisplayControl:	Measure of the Young's modulus in gigapascals (low end of range)	
GUID:	Text Box	
OrdinalPosition:	{guid {FB CD272A-4C70-4943-BD1A-2E058D9E1EB2}}	
Required:	15	
SourceField:	False	
SourceTable:	Young's Modulus	
 Properties		
 Young's Modulus High		
AllowZeroLength:	Double	8
Attributes:	False	
CollatingOrder:	Fixed Size, Updatable	
ColumnHidden:	General	
ColumnOrder:	False	
ColumnWidth:	Default	
DataUpdatable:	Default	
DecimalPlaces:	True	
Description:	Auto	
DisplayControl:	(High end of range)	
GUID:	Text Box	
OrdinalPosition:	{guid {2F64745A-CE57-4156-9391-F884010A5F8E}}	
Required:	16	
SourceField:	False	
SourceTable:	Young's Modulus High	
 Properties		

Tensile Strength	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	True	
DecimalPlaces:	Auto	
Description:	Measure of the tensile strength in megapascals (low end of range)	
DisplayControl:	Text Box	
GUID:	{guid {AA914F3A-91BA-4CA6-97D5-46915ECE4102}}	
OrdinalPosition:	17	
Required:	False	
SourceField:	Tensile Strength	
SourceTable:	Properties	
Tensile Strength High	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	True	
DecimalPlaces:	Auto	
Description:	(High end of range)	
DisplayControl:	Text Box	
GUID:	{guid {7C13C71E-5259-45D7-A5CB-D647A1F78BB6}}	
OrdinalPosition:	18	
Required:	False	
SourceField:	Tensile Strength High	
SourceTable:	Properties	
Yield Strength	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	True	
DecimalPlaces:	Auto	
Description:	Measure of the yield strength in megapascals (low end of range)	
DisplayControl:	Text Box	
GUID:	{guid {4FD187C7-7FE5-4E92-B6A5-12993A550DD2}}	
OrdinalPosition:	19	
Required:	False	
SourceField:	Yield Strength	
SourceTable:	Properties	
Yield Strength High	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	

	ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	Default Default True Auto (High end of range) Text Box {guid {E2A38495-2D8F-4B52-B0BC-032CBD1AD651}} 20 False Yield Strength High Properties	
Elongation	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	False Fixed Size, Updatable General False Default Default True Auto Measure of the elongation in percents (low end of range) Text Box {guid {51B21D6F-EF54-46FF-A5D0-6466C48D8729}} 21 False Elongation Properties	Double 8
Elongation High	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	False Fixed Size, Updatable General False Default Default True Auto (High end of range) Text Box {guid {AD723131-56F3-4B90-BE0D-8053696AAC4E}} 22 False Elongation High Properties	Double 8
Area in Reduction	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description:	False Fixed Size, Updatable General False Default Default True Auto Measure of the area in reduction in percents (low end of range)	Double 8

	DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	Text Box {guid {8E803F26-45B1-4377-BC3D-6E646721F689}} 23 False Area in Reduction Properties		
Area in Reduction High			Double	8
	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	False Fixed Size, Updatable General False Default Default True Auto (High end of range) Text Box {guid {FC9AD789-77FC-4442-AF0C-5D9A7722E2E7}} 24 False Area in Reduction High Properties		
Density			Double	8
range)	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description:	False Fixed Size, Updatable General False Default Default True Auto Measure of the density in grams pre cubic centimeter (low end of		
	DisplayControl: GUID: OrdinalPosition: Required: SourceField: SourceTable:	Text Box {guid {DE686984-18C7-4B0A-BAA4-58D29EA47526}} 25 False Density Properties		
Density High			Double	8
	AllowZeroLength: Attributes: CollatingOrder: ColumnHidden: ColumnOrder: ColumnWidth: DataUpdatable: DecimalPlaces: Description: DisplayControl: GUID: OrdinalPosition:	False Fixed Size, Updatable General False Default Default True Auto (High end of range) Text Box {guid {1F02D7FB-B290-4EA0-A6E3-4163472CA214}} 26		

	Required:	False	
	SourceField:	Density High	
	SourceTable:	Properties	
Poisson's Ratio		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size, Updatable	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	True	
	DecimalPlaces:	Auto	
	Description:	Measure of the poisson's ratio (low end of range)	
	DisplayControl:	Text Box	
	GUID:	{guid {3AC26603-1456-4A2B-8461-F5997D45D3E0}}	
	OrdinalPosition:	27	
	Required:	False	
	SourceField:	Poisson's Ratio	
	SourceTable:	Properties	
Poisson's Ratio High		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size, Updatable	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	True	
	DecimalPlaces:	Auto	
	Description:	(High end of range)	
	DisplayControl:	Text Box	
	GUID:	{guid {7FAE7C65-164E-4EEB-AF8C-9F71B709D0E4}}	
	OrdinalPosition:	28	
	Required:	False	
	SourceField:	Poisson's Ratio High	
	SourceTable:	Properties	
Specific Heat		Double	8
	AllowZeroLength:	False	
	Attributes:	Fixed Size, Updatable	
	CollatingOrder:	General	
	ColumnHidden:	False	
	ColumnOrder:	Default	
	ColumnWidth:	Default	
	DataUpdatable:	True	
	DecimalPlaces:	Auto	
	Description:	Measure of the specific heat in joules per kilogram Kelvin (low end of range)	
	DisplayControl:	Text Box	
	GUID:	{guid {063F9A09-81D6-43C5-B8E1-5EC1AA2B3260}}	
	OrdinalPosition:	29	
	Required:	False	
	SourceField:	Specific Heat	
	SourceTable:	Properties	

Specific Heat High	Double	8
AllowZeroLength:	False	
Attributes:	Fixed Size, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	Default	
DataUpdatable:	True	
DecimalPlaces:	Auto	
Description:	(High end of range)	
DisplayControl:	Text Box	
GUID:	{guid {A4A4B302-7FE9-460F-ACB7-216B62660F0F}}	
OrdinalPosition:	30	
Required:	False	
SourceField:	Specific Heat High	
SourceTable:	Properties	
Refrences	Text	255
AllowZeroLength:	False	
Attributes:	Variable Length, Updatable	
CollatingOrder:	General	
ColumnHidden:	False	
ColumnOrder:	Default	
ColumnWidth:	3015	
DataUpdatable:	True	
Description:	Sources used to find the properties (low end of range)	
DisplayControl:	Text Box	
GUID:	{guid {E5BDAE89-EC4A-4477-8030-7A76714FB087}}	
IMEMode:	0	
IMESentenceMode:	3	
OrdinalPosition:	31	
Required:	True	
SourceField:	Refrences	
SourceTable:	Properties	
UnicodeCompression:	True	

### Table Indexes

	Name	Number of Fields
Common	Name	1
	Clustered:	False
	DistinctCount:	182
	Foreign:	False
	IgnoreNulls:	False
	Name:	Common Name
	Primary:	False
	Required:	False
	Unique:	False
	Fields:	
	Common Name	Ascending
PrimaryKey		1
	Clustered:	False
	DistinctCount:	193
	Foreign:	False

	IgnoreNulls:	False
	Name:	PrimaryKey
	Primary:	True
	Required:	True
	Unique:	True
	Fields:	
	UNS Number	Ascending
ID		1
	Clustered:	False
	DistinctCount:	141
	Foreign:	False
	IgnoreNulls:	False
	Name:	ID
	Primary:	False
	Required:	False
	Unique:	True
	Fields:	
	SSR ID	Ascending
PrimaryKey		1
	Clustered:	False
	DistinctCount:	141
	Foreign:	False
	IgnoreNulls:	False
	Name:	PrimaryKey
	Primary:	True
	Required:	True
	Unique:	True
	Fields:	
	SSR ID	Ascending
Shape and Size Ranges	UNS Number	1
	Clustered:	False
	DistinctCount:	66
	Foreign:	False
	IgnoreNulls:	False
	Name:	Shape and Size Ranges
	Primary:	UNS Number
	Required:	False
	Unique:	False
	Fields:	
	UNS Number	Ascending
ID		1
	Clustered:	False
	DistinctCount:	247
	Foreign:	False
	IgnoreNulls:	False
	Name:	ID
	Primary:	False
	Required:	False
	Unique:	True
	Fields:	
	P ID	Ascending
PrimaryKey		1
	Clustered:	False

	DistinctCount:	247
	Foreign:	False
	IgnoreNulls:	False
	Name:	PrimaryKey
	Primary:	True
	Required:	True
	Unique:	True
	Fields:	
	P ID	Ascending
SSR ID		1
	Clustered:	False
	DistinctCount:	133
	Foreign:	False
	IgnoreNulls:	False
	Name:	SSR ID
	Primary:	False
	Required:	False
	Unique:	False
	Fields:	
	SSR ID	Ascending
Temperature (°C)		1
	Clustered:	False
	DistinctCount:	19
	Foreign:	False
	IgnoreNulls:	False
	Name:	Temperature (°C)
	Primary:	False
	Required:	False
	Unique:	False
	Fields:	
	Temperature	Ascending

#### User Permissions

	admin	
	Administrator	
	akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
Write		Definition, Read Data, Insert Data, Update Data, Delete Data
	Han	
	Reader	
	User	
	Xin	

#### Group Permissions

	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
Write		Definition, Read Data, Insert Data, Update Data, Delete Data
	Backup Operators	
	Full Data Users	
	Full Permissions	
	New Data Users	

Project Designers	
Read-Only Users	Read Definition, Read Data
Update Data Users	
Users	Read Permissions

**Properties**

AllowAdditions:	True	AllowDatasheetView:	False
AllowDeletions:	True	AllowDesignChanges:	True
AllowEditing:	True	AllowEdits:	True
AllowFilters:	True	AllowFormView:	True
AllowPivotChartView:	False	AllowPivotTableView:	False
AllowUpdating:	No	AutoCenter:	False
AutoSize:	True	BorderStyle:	Sizable
CloseButton:	True	Container:	Forms
ControlBox:	True	Count:	5
CurrentView:	0	Cycle:	All Records
DataEntry:	False	DatasheetBackColor:	16777215
DatasheetBorderStyle:	1	DatasheetCellsEffect:	Flat
DatasheetColumnHeaderUnd	10	DatasheetFontHeight:	
DatasheetFontItalic:	False	DatasheetFontName:	Arial
DatasheetFontUnderline:	False	DatasheetFontWeight:	Normal
DatasheetForeColor:	0	DatasheetGridlinesBehavior:	Both
DatasheetGridlinesColor:	12632256	DateCreated:	7/18/2005 11:34:18 AM
DefaultEditing:	2	DefaultView:	Single Form
DividingLines:	False	FastLaserPrinting:	True
FetchDefaults:	True	FilterOn:	False
FrozenColumns:	1	GridX:	24
GridY:	24	GUID:	{guid {2488EEAC-AF19-4086-B88A-A40DA94C83E8}}
HasModule:	True	HelpContextId:	0
HorizontalDatasheetGridlineSt		Hwnd:	1704916
InsideHeight:	7440	InsideWidth:	11445
KeyPreview:	False	LastUpdated:	7/18/2005 11:34:18 AM
LayoutForPrint:	False	LogicalPageWidth:	9360
MaxButton:	True	MinButton:	True
MinMaxButtons:	Both Enabled	Modal:	False
Moveable:	True	NameMap:	Long binary data
NavigationButtons:	False	OrderByOn:	False
Orientation:	Left-to-Right	Owner:	admin
Painting:	True	PaletteSource:	(Default)
Picture:	(none)	PictureAlignment:	Center
PictureSizeMode:	Clip	PictureTiling:	False
PictureType:	0	PopUp:	False
PrtDevMode:	Long binary data	PrtDevNames:	Long binary data
PrtMip:	Long binary data	RecordLocks:	No Locks
RecordSelectors:	False	RecordsetType:	Dynaset
RowHeight:	Default	ScrollBars:	Neither
ShortcutMenu:	True	ShowGrid:	True
SubdatasheetExpanded:	False	SubdatasheetHeight:	0
TimerInterval:	0	UserName:	akorinda
VerticalDatasheetGridlineStyle		1	ViewsAllowed:
Visible:	False	WhatsThisButton:	False
Width:	11160	WindowHeight:	8265
WindowLeft:	2625	WindowTop:	2925
WindowWidth:	11880		

## Objects

### **Section: Detail**

BackColor:	33023	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	Detail	ForceNewPage:	None
HasContinued:	False	Height:	7440
InSelection:	False	KeepTogether:	False
Name:	Detail	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

### **Command Button: cmdAutoEdit**

AutoRepeat:	False	Cancel:	False
Caption:	Auto-Edit Data	ControlType:	104
Default:	False	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	cmdAutoEdit
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	900
HelpContextId:	0	Left:	4020
Name:	cmdAutoEdit	OnClick:	=AutoEdit()
Picture:	(none)	PictureType:	0
ReadingOrder:	Context	Section:	0
TabIndex:	1	TabStop:	True
TextFontCharSet:	0	Top:	3120
Transparent:	False	Visible:	True
Width:	1740		

### **Command Button: cmdData**

AutoRepeat:	False	Cancel:	False
Caption:	Manual Edit	ControlType:	104
Default:	False	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	cmdData
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	780
HelpContextId:	0	Left:	1200
Name:	cmdData	OnClick:	[Event Procedure]
Picture:	(none)	PictureType:	0
ReadingOrder:	Context	Section:	0
TabIndex:	0	TabStop:	True
TextFontCharSet:	0	Top:	3120
Transparent:	False	Visible:	True
Width:	1680		

### **Command Button: cmdUpdate**

AutoRepeat:	False	Cancel:	False
Caption:	Update for Search	ControlType:	104
Default:	False	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	cmdUpdate
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	780

HelpContextId:	0	Left:	6720
Name:	cmdUpdate	OnClick:	[Event Procedure]
Picture:	(none)	PictureType:	0
ReadingOrder:	Context	Section:	0
TabIndex:	2	TabStop:	True
TextFontCharSet:	0	Top:	3300
Transparent:	False	Visible:	True
Width:	1680		

**Label: Label0**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	MST Materials Database
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label0	FontBold:	Yes
FontItalic:	False	FontName:	Tahoma
FontSize:	20	FontUnderline:	False
FontWeight:	Bold	ForeColor:	0
Height:	720	HelpContextId:	0
Left:	0	LeftMargin:	0
LineSpacing:	0	Name:	Label0
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	0	TopMargin:	0
Vertical:	False	Visible:	True
Width:	7200		

**Label: Label1**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Admin Controls
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label1	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	16	FontUnderline:	False
FontWeight:	Semi-bold	ForeColor:	0
Height:	480	HelpContextId:	0
Left:	480	LeftMargin:	0
LineSpacing:	0	Name:	Label1
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	780	TopMargin:	0
Vertical:	False	Visible:	True
Width:	4260		

**Code**

```
1 VERSION 1.0 CLASS
2 BEGIN
```

```
3 MultiUse = -1 'True
4 END
5 Attribute VB_Name = "Form_Admin"
6 Attribute VB_GlobalNameSpace = False
7 Attribute VB_Creatable = True
8 Attribute VB_PredeclaredId = True
9 Attribute VB_Exposed = False
10 Public FNamL As String 'Hold name of low field
11 Public FNamH As String 'Hold name of high field
12 Public d As Integer 'Determine if there is a field to use
13 Public E As Integer 'E=1 when exit of function is required
14
15 Option Compare Database
16
17 Private Function AutoEdit()
18
19 Dim db As DAO.Database
20 Dim rs As DAO.Recordset
21 Dim vL As Double 'Hold low field value
22 Dim vH As Double 'Hold high field value
23 Dim x As Integer 'For use in For Next Loops
24
25 t = 0
26 d = 0
27 conFields = 24 'If database is congruent then conFields=conTexts (from search form)
28
29 Set db = CurrentDb
30 Set rs = db.OpenRecordset("SELECT * FROM [Properties]", dbOpenDynaset)
31
32 While (Not (rs.EOF))
33     t = t + 1
34     For x = 1 To conFields Step 2
35         FieldName x
36         If E = 1 Then Exit Function
37         If d <> 1 Then
38             rs.Edit
39             vL = Nz(rs.Fields(FNamL).Value, 0)
40             vH = Nz(rs.Fields(FNamH).Value, 0)
41
42             If vL > vH Then
43                 vH = vL 'Trust low to be correct
44                 rs.Fields(FNamL).Value = vL
45                 rs.Fields(FNamH).Value = vH
46             ElseIf vL = 0 And vH = 0 Then
47                 rs.Fields(FNamL).Value = Null
48                 rs.Fields(FNamH).Value = Null
49             ElseIf vL = 0 Then
50                 vL = vH 'Trust high to be correct
51                 rs.Fields(FNamL).Value = vL
52                 rs.Fields(FNamH).Value = vH
53             Else 'Must be correct values, do not tamper
54                 d = 0 'Meaningless code as placeholder
55             End If
56
```

```
57      rs.Update
58  End If
59  d = 0
60  Next
61  rs.MoveNext
62 Wend
63
64 rs.Close
65 Set rs = Nothing
66 Set db = Nothing
67
68 MsgBox "Edit of data was successful.", vbInformation, "Congratulations"
69
70 End Function
71
72 Private Sub cmdData_Click()
73
74 DoCmd.OpenTable "Materials", acViewNormal, acEdit
75
76 End Sub
77
78 Private Sub cmdUpdate_Click()
79
80 MsgBox "You are about to update a table required for proper searches. You must answer yes to
all
the following questions for this necessary action to happen.", vbInformation, "Attention!"
81 DoCmd.OpenQuery "Fixed Table Creator", acViewNormal, acReadOnly
82 MsgBox "Table was updated successfully.", vbInformation, "Congratulations"
83
84 End Sub
85
86 Sub FieldName(x)
87
88 E = 0
89
90 Select Case x
91   Case 1
92     FNamL = "Density"
93     FNamH = FNamL & " High"
94   Case 3
95     d = 1
96     d = 1
97   Case 5
98     FNamL = "Electrical Resistivity"
99     FNamH = FNamL & " High"
100  Case 7
101    FNamL = "Coefficient of Thermal Expansion"
102    FNamH = FNamL & " High"
103  Case 9
104    FNamL = "Young's Modulus"
105    FNamH = FNamL & " High"
106  Case 11
107    FNamL = "Area in Reduction"
108    FNamH = FNamL & " High"
109  Case 13
```

```
110      FNamL = "Elongation"
111      FNamH = FNamL & " High"
112  Case 15
113      FNamL = "Yield Strength"
114      FNamH = FNamL & " High"
115  Case 17
116      FNamL = "Tensile Strength"
117      FNamH = FNamL & " High"
118  Case 19
119      FNamL = "Poisson's Ratio"
120      FNamH = FNamL & " High"
121  Case 21
122      FNamL = "Thermal Conductivity"
123      FNamH = FNamL & " High"
124  Case 23
125      FNamL = "Specific Heat"
126      FNamH = FNamL & " High"
127  Case Else
128      MsgBox "Hold up, did you forget to edit Sub FieldName after adding fields? Enter VBA and
make sure that all the property field names are properly listed. Ending Event Now",
vbInformation,
" Hold up, Slow down, and Chill out"
129      E = 1
130      Exit Sub
131 End Select
132
133 End Sub
```

#### User Permissions

Modify	admin	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
	Administrator	Definition, Execute
Modify	akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
	Han	Definition, Execute
	Reader	
	User	
	Xin	

#### Group Permissions

Modify	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
	Backup Operators	Definition, Execute
	Full Data Users	
	Full Permissions	
	New Data Users	
	Project Designers	
	Read-Only Users	
	Update Data Users	
	Users	Read Permissions

**Properties**

AllowAdditions:	False	AllowDatasheetView:	False
AllowDeletions:	False	AllowDesignChanges:	True
AllowEditing:	True	AllowEdits:	False
AllowFilters:	True	AllowFormView:	True
AllowPivotChartView:	False	AllowPivotTableView:	False
AllowUpdating:	No	AutoCenter:	False
AutoSize:	True	BorderStyle:	Thin
CloseButton:	True	Container:	Forms
ControlBox:	True	Count:	38
CurrentView:	0	Cycle:	All Records
DataEntry:	False	DatasheetBackColor:	16777215
DatasheetBorderStyle:	1	DatasheetCellsEffect:	Flat
DatasheetColumnHeaderUnd	10	DatasheetFontHeight:	
DatasheetFontItalic:	False	DatasheetFontName:	Arial
DatasheetFontUnderline:	False	DatasheetFontWeight:	Normal
DatasheetForeColor:	0	DatasheetGridlinesBehavior:	Both
DatasheetGridlinesColor:	12632256	DateCreated:	7/22/2005 8:20:57 PM
DefaultEditing:	3	DefaultView:	Single Form
DividingLines:	False	FastLaserPrinting:	True
FetchDefaults:	True	FilterOn:	False
FrozenColumns:	1	GridX:	24
GridY:	24	GUID:	{guid {DD33F420-02FE-4B3F-B9BB-4EADCA495AC5}}
HasModule:	True	HelpContextId:	0
HorizontalDatasheetGridlineSt		Hwnd:	1770452
InsideHeight:	13110	InsideWidth:	12840
KeyPreview:	False	LastUpdated:	7/22/2005 8:20:57 PM
LayoutForPrint:	False	LogicalPageWidth:	12960
MaxButton:	False	MinButton:	False
MinMaxButtons:	None	Modal:	False
Moveable:	True	NameMap:	Long binary data
NavigationButtons:	False	OrderByOn:	False
Orientation:	Left-to-Right	Owner:	admin
Painting:	True	PaletteSource:	(Default)
Picture:	(none)	PictureAlignment:	Center
PictureSizeMode:	Clip	PictureTiling:	False
PictureType:	0	PopUp:	False
PrtDevMode:	Long binary data	PrtDevNames:	Long binary data
PrtMip:	Long binary data	RecordLocks:	No Locks
RecordSelectors:	False	RecordsetType:	Dynaset
RowHeight:	Default	ScrollBars:	Vertical Only
ShortcutMenu:	True	ShowGrid:	True
SubdatasheetExpanded:	False	SubdatasheetHeight:	0
TimerInterval:	0	UserName:	akorinda
VerticalDatasheetGridlineStyle		ViewsAllowed:	Form
Visible:	False	WhatsThisButton:	False
Width:	12840	WindowHeight:	13935
WindowLeft:	2445	WindowTop:	360
WindowWidth:	13275		

## Objects

### **Section: Detail**

BackColor:	16777215	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	Detail	ForceNewPage:	None
HasContinued:	False	Height:	12960
InSelection:	False	KeepTogether:	False
Name:	Detail	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

### **Option Group: frmGraph**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	frmGraph	Height:	8400
HelpContextId:	0	Left:	180
Locked:	False	Name:	frmGraph
OldBorderStyle:	1	Section:	0
SpecialEffect:	Etched	TabIndex:	0
TabStop:	True	Top:	480
Visible:	True	Width:	11880

### **Option Group: frmLegand**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	frmLegand	Height:	2880
HelpContextId:	0	Left:	180
Locked:	False	Name:	frmLegand
OldBorderStyle:	1	Section:	0
SpecialEffect:	Etched	TabIndex:	1
TabStop:	True	Top:	9360
Visible:	True	Width:	11880

### **Label: lblGraphfrm**

BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Graph
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	lblGraphfrm	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	12	FontUnderline:	False
FontWeight:	Semi-bold	ForeColor:	0
Height:	360	HelpContextId:	0
Left:	360	LeftMargin:	0
LineSpacing:	0	Name:	lblGraphfrm
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0

Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	360	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1440		

**Label: IblLegandfrm**

BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Legand
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	IblLegandfrm	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	300	LeftMargin:	0
LineSpacing:	0	Name:	IblLegandfrm
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	9240	TopMargin:	0
Vertical:	False	Visible:	True
Width:	795		

**Label: Iblvs**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	vs
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Iblvs	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	18	FontUnderline:	False
FontWeight:	Semi-bold	ForeColor:	0
Height:	420	HelpContextId:	0
Left:	5880	LeftMargin:	0
LineSpacing:	0	Name:	Iblvs
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	720	TopMargin:	0
Vertical:	False	Visible:	True
Width:	480		

**Label: Iblx**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Iblx
ControlTipText:	Y-Axis	ControlType:	100
DisplayWhen:	Always	EventProcPrefix:	Iblx
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	18

FontUnderline:	False	FontWeight:	Semi-bold
ForeColor:	0	Height:	900
HelpContextId:	0	Left:	6480
LeftMargin:	0	LineSpacing:	0
Name:	Iblx	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	Section:	0
SpecialEffect:	Flat	TextAlign:	Left
TextFontCharSet:	0	Top:	660
TopMargin:	0	Vertical:	False
Visible:	True	Width:	5279

**Label: Iblxaxis**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Iblxaxis
ControlTipText:	X-Axis	ControlType:	100
DisplayWhen:	Always	EventProcPrefix:	Iblxaxis
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	12
FontUnderline:	False	FontWeight:	Semi-bold
ForeColor:	0	Height:	360
HelpContextId:	0	Left:	1440
LeftMargin:	0	LineSpacing:	0
Name:	Iblxaxis	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	Section:	0
SpecialEffect:	Flat	TextAlign:	Center
TextFontCharSet:	0	Top:	8460
TopMargin:	0	Vertical:	False
Visible:	True	Width:	10080

**Label: IblxAxism1**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	IblxAxism1
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	IblxAxism1	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	982	LeftMargin:	0
LineSpacing:	0	Name:	IblxAxism1
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	8100	TopMargin:	0
Vertical:	False	Visible:	False
Width:	915		

**Label: IblxAxism2**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid

BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	IblxAxis2
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	IblxAxis2	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	2422	LeftMargin:	0
LineSpacing:	0	Name:	IblxAxis2
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	8100	TopMargin:	0
Vertical:	False	Visible:	False
Width:	915		

**Label: IblxAxis3**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	IblxAxis3
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	IblxAxis3	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	3862	LeftMargin:	0
LineSpacing:	0	Name:	IblxAxis3
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	8100	TopMargin:	0
Vertical:	False	Visible:	False
Width:	915		

**Label: IblxAxis4**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	IblxAxis4
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	IblxAxis4	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	5302	LeftMargin:	0
LineSpacing:	0	Name:	IblxAxis4
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0

Top:	8100	TopMargin:	0
Vertical:	False	Visible:	False
Width:	915		

**Label: IblxAxis5**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	IblxAxis5
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	IblxAxis5	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	6742	LeftMargin:	0
LineSpacing:	0	Name:	IblxAxis5
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	8100	TopMargin:	0
Vertical:	False	Visible:	False
Width:	915		

**Label: IblxAxis6**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	IblxAxis6
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	IblxAxis6	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	8182	LeftMargin:	0
LineSpacing:	0	Name:	IblxAxis6
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	8100	TopMargin:	0
Vertical:	False	Visible:	False
Width:	915		

**Label: IblxAxis7**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	IblxAxis7
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	IblxAxis7	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0

Left:	9622	LeftMargin:	0
LineSpacing:	0	Name:	IblxAxis7
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	8100	TopMargin:	0
Vertical:	False	Visible:	False
Width:	915		

**Label: IblxAxis8**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	IblxAxis8
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	IblxAxis8	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	11062	LeftMargin:	0
LineSpacing:	0	Name:	IblxAxis8
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	8100	TopMargin:	0
Vertical:	False	Visible:	False
Width:	915		

**Label: Ibly**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Ibly
ControlTipText:	Y-Axis	ControlType:	100
DisplayWhen:	Always	EventProcPrefix:	Ibly
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	18
FontUnderline:	False	FontWeight:	Semi-bold
ForeColor:	0	Height:	900
HelpContextId:	0	Left:	480
LeftMargin:	0	LineSpacing:	0
Name:	Ibly	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	Section:	0
SpecialEffect:	Flat	TextAlign:	Right
TextFontCharSet:	0	Top:	660
TopMargin:	0	Vertical:	False
Visible:	True	Width:	5278

**Label: Iblyaxis**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Iblyaxis

ControlTipText:	Y-Axis	ControlType:	100
DisplayWhen:	Always	EventProcPrefix:	Iblyaxis
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	12
FontUnderline:	False	FontWeight:	Semi-bold
ForeColor:	0	Height:	5940
HelpContextId:	0	Left:	240
LeftMargin:	0	LineSpacing:	0
Name:	Iblyaxis	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	Section:	0
SpecialEffect:	Flat	TextAlign:	Center
TextFontCharSet:	0	Top:	1920
TopMargin:	0	Vertical:	True
Visible:	True	Width:	504

**Label: IblyAxis1**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	IblyAxis1
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	IblyAxis1	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	216	HelpContextId:	0
Left:	420	LeftMargin:	0
LineSpacing:	0	Name:	IblyAxis1
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	7800	TopMargin:	0
Vertical:	False	Visible:	True
Width:	855		

**Label: IblyAxis2**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	IblyAxis2
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	IblyAxis2	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	216	HelpContextId:	0
Left:	420	LeftMargin:	0
LineSpacing:	0	Name:	IblyAxis2
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	6285	TopMargin:	0
Vertical:	False	Visible:	True

Width: 855

**Label: lblyAxis3**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	lblyAxis3
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	lblyAxis3	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	216	HelpContextId:	0
Left:	420	LeftMargin:	0
LineSpacing:	0	Name:	lblyAxis3
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	4770	TopMargin:	0
Vertical:	False	Visible:	True
Width:	855		

**Label: lblyAxis4**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	lblyAxis4
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	lblyAxis4	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	216	HelpContextId:	0
Left:	420	LeftMargin:	0
LineSpacing:	0	Name:	lblyAxis4
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	3255	TopMargin:	0
Vertical:	False	Visible:	True
Width:	855		

**Label: lblyAxis5**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	lblyAxis5
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	lblyAxis5	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	216	HelpContextId:	0
Left:	420	LeftMargin:	0
LineSpacing:	0	Name:	lblyAxis5

NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	1740	TopMargin:	0
Vertical:	False	Visible:	True
Width:	855		

**Line: Line371**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line371	Height:	144
Left:	11520	LineSlant:	True
Name:	Line371	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	7920	Visible:	True
Width:	0		

**Line: Line372**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line372	Height:	144
Left:	10080	LineSlant:	True
Name:	Line372	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	7920	Visible:	True
Width:	0		

**Line: Line373**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line373	Height:	144
Left:	8640	LineSlant:	True
Name:	Line373	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	7920	Visible:	True
Width:	0		

**Line: Line374**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line374	Height:	144
Left:	7200	LineSlant:	True
Name:	Line374	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	7920	Visible:	True
Width:	0		

**Line: Line375**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line375	Height:	144

Left:	5760	LineSlant:	True
Name:	Line375	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	7920	Visible:	True
Width:	0		

**Line: Line376**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line376	Height:	144
Left:	4320	LineSlant:	True
Name:	Line376	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	7920	Visible:	True
Width:	0		

**Line: Line377**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line377	Height:	144
Left:	2880	LineSlant:	True
Name:	Line377	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	7920	Visible:	True
Width:	0		

**Line: Line378**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line378	Height:	144
Left:	1440	LineSlant:	True
Name:	Line378	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	7920	Visible:	True
Width:	0		

**Line: Line379**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line379	Height:	0
Left:	1296	LineSlant:	True
Name:	Line379	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	7920	Visible:	True
Width:	144		

**Line: Line384**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line384	Height:	0
Left:	1296	LineSlant:	True
Name:	Line384	OldBorderStyle:	1

Section:	0	SpecialEffect:	Flat
Top:	6390	Visible:	True
Width:	144		
<b>Line: Line385</b>			
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line385	Height:	0
Left:	1296	LineSlant:	True
Name:	Line385	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	4860	Visible:	True
Width:	144		
<b>Line: Line386</b>			
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line386	Height:	0
Left:	1296	LineSlant:	True
Name:	Line386	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	3330	Visible:	True
Width:	144		
<b>Line: Line387</b>			
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line387	Height:	0
Left:	1296	LineSlant:	True
Name:	Line387	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	1800	Visible:	True
Width:	144		
<b>Line: linxaxis</b>			
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	linxaxis	Height:	0
Left:	1440	LineSlant:	False
Name:	linxaxis	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	7920	Visible:	True
Width:	10080		
<b>Line: linyaxis</b>			
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	linyaxis	Height:	6120
Left:	1440	LineSlant:	False
Name:	linyaxis	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	1800	Visible:	True

Width: 0

**Page Break: PgBrk**

ControlType:	118	EventProcPrefix:	PgBrk
Left:	0	Name:	PgBrk
Section:	0	Top:	9000
Visible:	True		

**Code**

```
1 VERSION 1.0 CLASS
2 BEGIN
3 MultiUse = -1 'True
4 END
5 Attribute VB_Name = "Form_Graph"
6 Attribute VB_GlobalNameSpace = False
7 Attribute VB_Creatable = True
8 Attribute VB_PredeclaredId = True
9 Attribute VB_Exposed = False
```

**User Permissions**

Modify	admin	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Execute
Modify	Administrator akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Execute
	Han Reader User Xin	

**Group Permissions**

Modify	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Execute
	Backup Operators Full Data Users Full Permissions New Data Users Project Designers Read-Only Users Update Data Users Users	Delete, Read Definition, Modify Definition, Execute Read Permissions

**Properties**

AllowAdditions:	False	AllowDatasheetView:	False
AllowDeletions:	False	AllowDesignChanges:	True
AllowEditing:	True	AllowEdits:	True
AllowFilters:	True	AllowFormView:	True
AllowPivotChartView:	False	AllowPivotTableView:	False
AllowUpdating:	No	AutoCenter:	False
AutoResize:	True	BorderStyle:	Thin
CloseButton:	True	Container:	Forms
ControlBox:	True	Count:	38
CurrentView:	0	Cycle:	All Records
DataEntry:	False	DatasheetBackColor:	16777215
DatasheetBorderStyle:	1	DatasheetCellsEffect:	Flat
DatasheetColumnHeaderUnd	10	DatasheetFontHeight:	
DatasheetFontItalic:	False	DatasheetFontName:	Arial
DatasheetFontUnderline:	False	DatasheetFontWeight:	Normal
DatasheetForeColor:	0	DatasheetGridlinesBehavior:	Both
DatasheetGridlinesColor:	12632256	DateCreated:	7/22/2005 8:21:17 PM
DefaultEditing:	4	DefaultView:	Single Form
DividingLines:	False	FastLaserPrinting:	True
FetchDefaults:	True	FilterOn:	False
FrozenColumns:	1	GridX:	24
GridY:	24	GUID:	{guid {1B855D69-522C-46CE-8487-3E7DB981C2D3}}
HasModule:	True	HelpContextId:	0
HorizontalDatasheetGridlineSt		Hwnd:	1835988
InsideHeight:	7485	InsideWidth:	7440
KeyPreview:	False	LastUpdated:	7/22/2005 8:21:17 PM
LayoutForPrint:	False	LogicalPageWidth:	9360
MaxButton:	False	MinButton:	False
MinMaxButtons:	None	Modal:	False
Moveable:	True	NameMap:	Long binary data
NavigationButtons:	False	OrderByOn:	False
Orientation:	Left-to-Right	Owner:	admin
Painting:	True	PaletteSource:	(Default)
Picture:	(none)	PictureAlignment:	Center
PictureSizeMode:	Clip	PictureTiling:	False
PictureType:	0	PopUp:	False
PrtDevMode:	Long binary data	PrtDevNames:	Long binary data
PrtMip:	Long binary data	RecordLocks:	No Locks
RecordSelectors:	False	RecordsetType:	Dynaset
RowHeight:	Default	ScrollBars:	Neither
ShortcutMenu:	True	ShowGrid:	True
SubdatasheetExpanded:	False	SubdatasheetHeight:	0
TimerInterval:	0	UserName:	akorinda
VerticalDatasheetGridlineStyle		1	ViewsAllowed:
Visible:	False	WhatsThisButton:	False
Width:	7440	WindowHeight:	8310
WindowLeft:	150	WindowTop:	7200
WindowWidth:	7875		

## **Objects**

### **Section: Detail**

BackColor:	65280	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	Detail	ForceNewPage:	None
HasContinued:	False	Height:	6540
InSelection:	False	KeepTogether:	False
Name:	Detail	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

### **Section: FormFooter**

BackColor:	65280	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	FormFooter	ForceNewPage:	None
HasContinued:	False	Height:	360
InSelection:	False	KeepTogether:	False
Name:	FormFooter	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

### **Section: FormHeader**

BackColor:	65280	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	FormHeader	ForceNewPage:	None
HasContinued:	False	Height:	600
InSelection:	False	KeepTogether:	False
Name:	FormHeader	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

### **Combo Box: cbox**

AllowAutoCorrect:	True	AutoExpand:	True
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BoundColumn:	2	ColumnCount:	1
ColumnHeads:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ColumnWidths:	1440	ControlType:	111
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	cbox
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	720	LimitToList:	True
ListRows:	8	ListWidth:	1440
Locked:	False	Name:	cbox
NumericalShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RowSource:	SELECT [Property List].Property, [Property list].ID FROM [Property List];

RowSourceType: Table/Query	ScrollBarAlign: System
Section: 0	SpecialEffect: Sunken
TabIndex: 0	TabStop: True
TextAlign: General	TextFontCharSet: 0
Top: 1320	Visible: True
Width: 2820	
<b>Combo Box: cboy</b>	
AllowAutoCorrect: True	AutoExpand: True
BackColor: 16777215	BackStyle: Normal
BorderColor: 0	BorderStyle: Solid
BorderStyle: Solid	BorderWidth: Hairline
BoundColumn: 2	ColumnCount: 1
ColumnHeads: False	ColumnHidden: False
ColumnOrder: Default	ColumnWidth: Default
ColumnWidths: 1440	ControlType: 111
DecimalPlaces: Auto	DisplayWhen: Always
Enabled: True	EventProcPrefix: cboy
FontBold: No	FontItalic: False
FontName: Tahoma	FontSize: 8
FontUnderline: False	FontWeight: Normal
ForeColor: 0	Height: 240
HelpContextId: 0	IMEHold: False
IMEMode: 0	IMESentenceMode: 3
IsHyperlink: False	KeyboardLanguage: 0
Left: 3780	LimitToList: True
ListRows: 8	ListWidth: 1440
Locked: False	Name: cboy
NumeralShapes: System	OldBorderStyle: 1
ReadingOrder: Context	RowSource: SELECT [Property List].Property, [Property list].ID FROM [Property List];
RowSourceType: Table/Query	ScrollBarAlign: System
Section: 0	SpecialEffect: Sunken
TabIndex: 1	TabStop: True
TextAlign: General	TextFontCharSet: 0
Top: 1320	Visible: True
Width: 2880	
<b>Check Box: CheckMAD</b>	
BorderColor: 0	BorderStyle: Solid
BorderStyle: Solid	BorderWidth: Hairline
ColumnHidden: False	ColumnOrder: Default
ColumnWidth: Default	ControlType: 106
DefaultValue: 0	DisplayWhen: Always
Enabled: True	EventProcPrefix: CheckMAD
Height: 240	HelpContextId: 0
Left: 2700	Locked: False
Name: CheckMAD	OldBorderStyle: 1
ReadingOrder: Context	Section: 0
SpecialEffect: Sunken	TabIndex: 10
TabStop: True	Top: 4650
TripleState: False	Visible: True
Width: 260	
<b>Check Box: CheckMAP</b>	
BorderColor: 0	BorderStyle: Solid

BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	106
DefaultValue:	0	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CheckMAP
Height:	240	HelpContextId:	0
Left:	2700	Locked:	False
Name:	CheckMAP	OldBorderStyle:	1
ReadingOrder:	Context	Section:	0
SpecialEffect:	Sunken	TabIndex:	12
TabStop:	True	Top:	5430
TripleState:	False	Visible:	True
Width:	260		

**Check Box: CheckMAS**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	106
DefaultValue:	0	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CheckMAS
Height:	240	HelpContextId:	0
Left:	2700	Locked:	False
Name:	CheckMAS	OldBorderStyle:	1
ReadingOrder:	Context	Section:	0
SpecialEffect:	Sunken	TabIndex:	11
TabStop:	True	Top:	5010
TripleState:	False	Visible:	True
Width:	260		

**Check Box: CheckMTC**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	106
DefaultValue:	0	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CheckMTC
Height:	240	HelpContextId:	0
Left:	720	Locked:	False
Name:	CheckMTC	OldBorderStyle:	1
ReadingOrder:	Context	Section:	0
SpecialEffect:	Sunken	TabIndex:	7
TabStop:	True	Top:	4650
TripleState:	False	Visible:	True
Width:	260		

**Check Box: CheckMTI**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	106
DefaultValue:	0	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CheckMTI
Height:	240	HelpContextId:	0
Left:	720	Locked:	False
Name:	CheckMTI	OldBorderStyle:	1
ReadingOrder:	Context	Section:	0

SpecialEffect:	Sunken	TabIndex:	8
TabStop:	True	Top:	5040
TripleState:	False	Visible:	True
Width:	260		

**Check Box: CheckMTS**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	106
DefaultValue:	0	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CheckMTS
Height:	240	HelpContextId:	0
Left:	720	Locked:	False
Name:	CheckMTS	OldBorderStyle:	1
ReadingOrder:	Context	Section:	0
SpecialEffect:	Sunken	TabIndex:	9
TabStop:	True	Top:	5430
TripleState:	False	Visible:	True
Width:	260		

**Command Button: cmdClear**

AutoRepeat:	False	Cancel:	False
Caption:	Clear Form	ControlType:	104
Default:	False	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	cmdClear
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	600
HelpContextId:	0	Left:	5820
Name:	cmdClear	OnClick:	[Event Procedure]
Picture:	(none)	PictureType:	0
ReadingOrder:	Context	Section:	0
TabIndex:	17	TabStop:	True
TextFontCharSet:	0	Top:	5640
Transparent:	False	Visible:	True
Width:	1380		

**Command Button: Command26**

AutoRepeat:	False	Cancel:	False
Caption:	Create Graph	ControlType:	104
Default:	False	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	Command26
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	786
HelpContextId:	0	Left:	5760
Name:	Command26	ObjectPalette:	Long binary data
OnClick:	=Create_Graph()	Picture:	(none)
PictureType:	0	ReadingOrder:	Context
Section:	0	TabIndex:	18
TabStop:	True	TextFontCharSet:	0
Top:	2880	Transparent:	False
Visible:	True	Width:	1446

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Frame10	Height:	1380
HelpContextId:	0	Left:	540
Locked:	False	Name:	Frame10
OldBorderStyle:	1	Section:	0
SpecialEffect:	Etched	TabIndex:	4
TabStop:	True	Top:	2640
Visible:	True	Width:	4500

**Option Group: Frame12**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Frame12	Height:	1560
HelpContextId:	0	Left:	540
Locked:	False	Name:	Frame12
OldBorderStyle:	1	Section:	0
SpecialEffect:	Etched	TabIndex:	5
TabStop:	True	Top:	4320
Visible:	True	Width:	1560

**Option Group: Frame14**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Frame14	Height:	1560
HelpContextId:	0	Left:	2520
Locked:	False	Name:	Frame14
OldBorderStyle:	1	Section:	0
SpecialEffect:	Etched	TabIndex:	6
TabStop:	True	Top:	4320
Visible:	True	Width:	2520

**Option Group: Frame6**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Frame6	Height:	1260
HelpContextId:	0	Left:	180
Locked:	False	Name:	Frame6
OldBorderStyle:	1	Section:	0
SpecialEffect:	Etched	TabIndex:	2

TabStop:	True	Top:	720
Visible:	True	Width:	7020

**Option Group: Frame8**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Frame8	Height:	3960
HelpContextId:	0	Left:	180
Locked:	False	Name:	Frame8
OldBorderStyle:	1	Section:	0
SpecialEffect:	Etched	TabIndex:	3
TabStop:	True	Top:	2280
Visible:	True	Width:	5220

**Label: Label0**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	MST Materials Database
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label0	FontBold:	Yes
FontItalic:	False	FontName:	Tahoma
FontSize:	20	FontUnderline:	False
FontWeight:	Heavy	ForeColor:	0
Height:	600	HelpContextId:	0
Left:	0	LeftMargin:	0
LineSpacing:	0	Name:	Label0
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	1	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	0	TopMargin:	0
Vertical:	False	Visible:	True
Width:	7140		

**Label: Label1**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Graph Creator
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label1	FontBold:	Yes
FontItalic:	False	FontName:	Tahoma
FontSize:	12	FontUnderline:	False
FontWeight:	Bold	ForeColor:	0
Height:	360	HelpContextId:	0
Left:	0	LeftMargin:	0
LineSpacing:	0	Name:	Label1
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	0	TopMargin:	0

Vertical:	False	Visible:	True
Width:	7140		

**Label: Label11**

BackColor:	-2147483633	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Range
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label11	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	660	LeftMargin:	0
LineSpacing:	0	Name:	Label11
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	2520	TopMargin:	0
Vertical:	False	Visible:	True
Width:	705		

**Label: Label13**

BackColor:	-2147483633	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Material Type(s)
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label13	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	660	LeftMargin:	0
LineSpacing:	0	Name:	Label13
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	4200	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1245		

**Label: Label140**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Conductor
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label140	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	945	LeftMargin:	0

LineSpacing:	0	Name:	Label140
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	4620	TopMargin:	0
Vertical:	False	Visible:	True
Width:	825		

**Label: Label142**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Insulator
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label142	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	950	LeftMargin:	0
LineSpacing:	0	Name:	Label142
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	5010	TopMargin:	0
Vertical:	False	Visible:	True
Width:	780		

**Label: Label144**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Structural
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label144	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	950	LeftMargin:	0
LineSpacing:	0	Name:	Label144
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	5400	TopMargin:	0
Vertical:	False	Visible:	True
Width:	780		

**Label: Label15**

BackColor:	-2147483633	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Material Application(s)
ControlType:	100	DisplayWhen:	Always

EventProcPrefix:	Label15	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	2640	LeftMargin:	0
LineSpacing:	0	Name:	Label15
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	4200	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1665		

**Label: Label151**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	DC Magnets
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label151	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	2925	LeftMargin:	0
LineSpacing:	0	Name:	Label151
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	4620	TopMargin:	0
Vertical:	False	Visible:	True
Width:	945		

**Label: Label153**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Superconducting Magnets
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label153	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	2925	LeftMargin:	0
LineSpacing:	0	Name:	Label153
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	4980	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1935		

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Pulse Magnets
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label155	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	2925	LeftMargin:	0
LineSpacing:	0	Name:	Label155
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	5400	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1110		

**Label: Label16**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	X-Axis
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label16	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	245	HelpContextId:	0
Left:	1560	LeftMargin:	0
LineSpacing:	0	Name:	Label16
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	2820	TopMargin:	0
Vertical:	False	Visible:	True
Width:	555		

**Label: Label17**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Y-Axis
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label17	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	245	HelpContextId:	0
Left:	3300	LeftMargin:	0
LineSpacing:	0	Name:	Label17
NumeralShapes:	System	OldBorderStyle:	0

ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFont CharSet:	0
Top:	2820	TopMargin:	0
Vertical:	False	Visible:	True
Width:	555		

**Label: Label18**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Maximum
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label18	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	210	HelpContextId:	0
Left:	720	LeftMargin:	0
LineSpacing:	0	Name:	Label18
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFont CharSet:	0
Top:	3180	TopMargin:	0
Vertical:	False	Visible:	True
Width:	735		

**Label: Label19**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Minimum
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label19	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	210	HelpContextId:	0
Left:	720	LeftMargin:	0
LineSpacing:	0	Name:	Label19
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFont CharSet:	0
Top:	3540	TopMargin:	0
Vertical:	False	Visible:	True
Width:	675		

**Label: Label7**

BackColor:	-2147483633	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Required Fields
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label7	FontBold:	No
FontItalic:	False	FontName:	Tahoma

FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	300	LeftMargin:	0
LineSpacing:	0	Name:	Label7
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	600	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1170		

**Label: Label9**

BackColor:	-2147483633	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Optional Fields
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label9	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	300	LeftMargin:	0
LineSpacing:	0	Name:	Label9
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	2160	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1125		

**Text Box: txtxMax**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DisplayWhen:	Always	Enabled:	True
EnterKeyBehavior:	False	EventProcPrefix:	txtxMax
FilterLookup:	Database Default	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 1560
LeftMargin:	0	LineSpacing:	0
Locked:	False	Name:	txtxMax
NumeralShapes:	System	OldBorderStyle:	0

ReadingOrder:	Context	RightMargin:	0
ScrollBarAlign:	System	ScrollBars:	Neither
Section:	0	SpecialEffect:	Sunken
TabIndex:	13	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3180	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1440		

**Text Box: ttxMin**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DisplayWhen:	Always	Enabled:	True
EnterKeyBehavior:	False	EventProcPrefix:	ttxMin
FilterLookup:	Database Default	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 1560
LeftMargin:	0	LineSpacing:	0
Locked:	False	Name:	ttxMin
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
ScrollBarAlign:	System	ScrollBars:	Neither
Section:	0	SpecialEffect:	Sunken
TabIndex:	14	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3540	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1440		

**Text Box: ttxyMax**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DisplayWhen:	Always	Enabled:	True
EnterKeyBehavior:	False	EventProcPrefix:	ttxyMax
FilterLookup:	Database Default	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0

IMEHold:	False	IMEMode:	0
IMESentenceMode:	3	IsHyperlink:	False
KeyboardLanguage:	0	Left:	3300
LeftMargin:	0	LineSpacing:	0
Locked:	False	Name:	txtyMax
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
ScrollBarAlign:	System	ScrollBars:	Neither
Section:	0	SpecialEffect:	Sunken
TabIndex:	15	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3180	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1440		

#### **Text Box: txtyMin**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DisplayWhen:	Always	Enabled:	True
EnterKeyBehavior:	False	EventProcPrefix:	txtyMin
FilterLookup:	Database Default	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
IMEHold:	False	IMEMode:	0
IMESentenceMode:	3	IsHyperlink:	False
KeyboardLanguage:	0	Left:	3300

LeftMargin:	0	LineSpacing:	0
Locked:	False	Name:	txtyMin
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
ScrollBarAlign:	System	ScrollBars:	Neither
Section:	0	SpecialEffect:	Sunken
TabIndex:	16	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3540	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1440		

#### **Label: X-Axis\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	X-Axis
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	X_Axis_Label	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False

FontWeight:	Normal	ForeColor:	0
Height:	245	HelpContextId:	0
Left:	720	LeftMargin:	0
LineSpacing:	0	Name:	X-Axis_Label
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	1020	TopMargin:	0
Vertical:	False	Visible:	True
Width:	555		

**Label: Y-Axis\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Y-Axis
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Y_Axis_Label	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	245	HelpContextId:	0
Left:	3780	LeftMargin:	0
LineSpacing:	0	Name:	Y-Axis_Label
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	1020	TopMargin:	0
Vertical:	False	Visible:	True
Width:	555		

**Code**

```

1 VERSION 1.0 CLASS
2 BEGIN
3 MultiUse = -1 'True
4 END
5 Attribute VB_Name = "Form_Graph Creator"
6 Attribute VB_GlobalNameSpace = False
7 Attribute VB_Creatable = True
8 Attribute VB_PredeclaredId = True
9 Attribute VB_Exposed = False
10
11 Private Sub cmdClear_Click()
12
13 cbox.Value = Null
14 cboy.Value = Null
15
16 ttxtxMin.Value = Null
17 ttxtxMax.Value = Null
18 txttyMin.Value = Null
19 txttyMax.Value = Null

```

```
20
21 CheckMTC.Value = 0
22 CheckMTI.Value = 0
23 CheckMTS.Value = 0
24
25 CheckMAD.Value = 0
26 CheckMAP.Value = 0
27 CheckMAS.Value = 0
28
29 End Sub
```

#### User Permissions

Modify	admin	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Execute
Modify	Administrator akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Execute
	Han Reader User Xin	

#### Group Permissions

Modify	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Execute
	Backup Operators Full Data Users Full Permissions New Data Users Project Designers Read-Only Users Update Data Users Users	Execute Read Permissions

**Properties**

AllowAdditions:	True	AllowDatasheetView:	True
AllowDeletions:	True	AllowDesignChanges:	True
AllowEditing:	True	AllowEdits:	True
AllowFilters:	True	AllowFormView:	True
AllowPivotChartView:	True	AllowPivotTableView:	True
AllowUpdating:	No	AutoCenter:	False
AutoSize:	True	BorderStyle:	Sizable
Caption:	MS&T Materials Database	CloseButton:	True
Container:	Forms	ControlBox:	True
Count:	57	CurrentView:	0
Cycle:	All Records	DataEntry:	False
DatasheetBackColor:	16777215	DatasheetBorderStyle:	1
DatasheetCellsEffect:	Flat	DatasheetColumnHeaderUnd	1
DatasheetFontHeight:	10	DatasheetFontItalic:	False
DatasheetFontName:	Arial	DatasheetFontUnderline:	False
DatasheetFontSize:	Normal	DatasheetForeColor:	0
DatasheetGridlinesBehavior:	Both	DatasheetGridlinesColor:	
12632256			
DateCreated:	7/15/2005 2:48:43 PM	DefaultEditing:	2
DefaultView:	Single Form	DividingLines:	True
FastLaserPrinting:	True	FetchDefaults:	True
FilterOn:	False	FrozenColumns:	1
GridX:	24	GridY:	24
GUID:	{guid {B15FEB4C-E1A9-4636-90EA-62D1254A12DE}}	HasModule:	False
HelpContextId:	0	HorizontalDatasheetGridlineSt	1
Hwnd:	1901524	InsideHeight:	6315
InsideWidth:	10365	KeyPreview:	False
LastUpdated:	7/15/2005 2:48:43 PM	LayoutForPrint:	False
LogicalPageWidth:	9360	MaxButton:	True
MinButton:	True	MinButtons:	Both Enabled
Modal:	False	Moveable:	True
NameMap:	Long binary data	NavigationButtons:	True
OrderByOn:	False	Orientation:	Left-to-Right
Owner:	akorinda	Painting:	True
PaletteSource:	(Default)	Picture:	(none)
PictureAlignment:	Center	PictureSizeMode:	Clip
PictureTiling:	False	PictureType:	0
PopUp:	False	PrtDevMode:	Long binary data
PrtDevNames:	Long binary data	PrtMip:	Long binary data
RecordLocks:	No Locks	RecordSelectors:	True
RecordsetType:	Dynaset	RecordSource:	Query1
RowHeight:	Default	ScrollBars:	Both
ShortcutMenu:	True	ShowGrid:	True
SubdatasheetExpanded:	False	SubdatasheetHeight:	0
TimeInterval:	0	UserName:	akorinda
VerticalDatasheetGridlineStyle		1	ViewsAllowed:
Visible:	False	WhatsThisButton:	False
Width:	10080	WindowHeight:	7140
WindowLeft:	390	WindowTop:	915
WindowWidth:	10800		

## Objects

### **Section: Detail**

BackColor:	39423	CanGrow:	True
CanShrink:	True	DisplayWhen:	Always
EventProcPrefix:	Detail	ForceNewPage:	None
HasContinued:	False	Height:	6360
InSelection:	False	KeepTogether:	True
Name:	Detail	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

### **Text Box: Area in Reduction (%)**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Area in Reduction	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Area_in_Reduction_____	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	1980	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Area in Reduction (%)	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	Measure of the area in reduction in percents (low end of range)
TabIndex:	15	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	780		

### **Text Box: Area in Reduction High**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Area in Reduction High	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always

Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Area_in_Reduction_High	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	2880	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Area in Reduction High	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusbarText:	(High end of range)
TabIndex:	16	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	720		

**Text Box: Coefficient of Thermal Expansion ( $\mu\text{m}/\text{mK}$ )**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Coefficient of Thermal Expansion	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Coefficient_of_Thermal_Expansion___ $\mu\text{m}$ FilterLookup: _mK_	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	6960	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Coefficient of Thermal Expansion ( $\mu\text{m}/\text{mK}$ )	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusbarText:	Coefficient of thermal expansion in micrometers per meter Kelvin (low end of range)
TabIndex:	11	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3300	TopMargin:	0

Vertical:	False	Visible:	True
Width:	1440		

**Text Box: Coefficient of Thermal Expansion High**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Coefficient of Thermal Expansion High	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Coefficient_of_Thermal_Expansion_High	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	8520	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Coefficient of Thermal Expansion High	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusbarText:	(High end of range)
TabIndex:	12	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3300	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1440		

**Text Box: Common Name**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	2250
ControlSource:	Common Name	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Common_Name	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	120	LeftMargin:	0

LineSpacing:	0	Locked:	False
Name:	Common Name	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusbarText:	Common name of the material
TabIndex:	0	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	8400		

#### **Text Box: Composition**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	6300
ControlSource:	Composition	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Composition	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	120	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Composition	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusbarText:	Composition of the material
TabIndex:	2	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	1500	TopMargin:	0
Vertical:	False	Visible:	True
Width:	8400		

#### **Text Box: Density (g/cc)**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Density	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Density_g_cc_	FilterLookup:	Database Default

FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	120	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Density (g/cc)	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	Measure of the density in grams per cubic centimeter (low end of range)
TabIndex:	5	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3300	TopMargin:	0
Vertical:	False	Visible:	True
Width:	960		

**Text Box: Density High**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Density High	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Density_High	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0

Left:	1200	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Density High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	(High end of range)
TabIndex:	6	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3300	TopMargin:	0
Vertical:	False	Visible:	True
Width:	960		

**Text Box: Electrical Resistivity High**

AllowAutoCorrect:	True	AutoTab:	False
-------------------	------	----------	-------

BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Electrical Resistivity High	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Electrical_Resistivity_High	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	3420	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Electrical Resistivity High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	(High end of range)
TabIndex:	8	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3300	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1020		

#### **Text Box: Electrical Resistivity(μΩ-cm)**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Electrical Resistivity	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Electrical_Resistivity_μΩ_cm_	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	2340	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Electrical Resistivity(μΩ-cm)	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0

SpecialEffect:	Sunken	StatusBarText:	Measure of the electrical resistivity in microohm centimeters (low end of range)
TabIndex:	7	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3300	TopMargin:	0
Vertical:	False	Visible:	True
Width:	960		
<b>Text Box: Elongation (%)</b>			
AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Elongation	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Elongation_____	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	5160	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Elongation (%)	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	Measure of the elongation in percents (low end of range)
TabIndex:	19	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	600		
<b>Text Box: Elongation High</b>			
AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Elongation High	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Elongation_High	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8

FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	5880	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Elongation High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	(High end of range)
TabIndex:	20	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	600		

**Label: Label0**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	6 pt
BottomMargin:	0	Caption:	MST Materials Database
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label0	FontBold:	Yes
FontItalic:	False	FontName:	Tahoma
FontSize:	20	FontUnderline:	False
FontWeight:	Heavy	ForeColor:	0
Height:	600	HelpContextId:	0
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Label0
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	0	TopMargin:	0
Vertical:	False	Visible:	True
Width:	9960		

**Label: Label13**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Composition
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label13	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Label13
NumeralShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0

Top:	1260	TopMargin:	0
Vertical:	False	Visible:	True
Width:	8520		

**Label: Label16**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Shape and Size Range
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label16	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	1140	HelpContextId:	0
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Label16
NumeralShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	1860	TopMargin:	0
Vertical:	False	Visible:	True
Width:	9960		

**Label: Label19**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Temperature
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label19	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	8640	LeftMargin:	0
LineSpacing:	0	Name:	Label19
NumeralShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	1260	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1380		

**Label: Label22**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Electrical Resistivity( $\mu\Omega\text{-cm}$ )
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label22	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0

Left:	2280	LeftMargin:	0
LineSpacing:	0	Name:	Label22
NumericalShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3060	TopMargin:	0
Vertical:	False	Visible:	True
Width:	2220		

**Label: Label28**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Thermal Conductivity (W/m-K)
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label28	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	4560	LeftMargin:	0
LineSpacing:	0	Name:	Label28
NumericalShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3060	TopMargin:	0
Vertical:	False	Visible:	True
Width:	2280		

**Label: Label29**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Coefficient of Thermal Expansion ( $\mu\text{m}/\text{m}$ -
ControlType:	100		K)
EventProcPrefix:	Label29	DisplayWhen:	Always
FontItalic:	False	FontBold:	No
FontSize:	8	FontName:	Tahoma
FontWeight:	Normal	FontUnderline:	False
Height:	540	ForeColor:	0
Left:	6900	HelpContextId:	0
LineSpacing:	0	LeftMargin:	0
NumericalShapes:	System	Name:	Label29
ReadingOrder:	Context	OldBorderStyle:	1
Section:	0	RightMargin:	0
TextAlign:	General	SpecialEffect:	Flat
Top:	3060	TextFontCharSet:	0
Vertical:	False	TopMargin:	0
Width:	3120	Visible:	True

**Label: Label30**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline

BottomMargin:	0	Caption:	Young's Modulus (GPa)
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label30	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Label30
NumeralShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3660	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1800		

**Label: Label31**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Tensile Strength (MPa)
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label31	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	8280	LeftMargin:	0
LineSpacing:	0	Name:	Label31
NumeralShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3660	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1740		

**Label: Label32**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Yield Strength (MPa)
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label32	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	6600	LeftMargin:	0
LineSpacing:	0	Name:	Label32
NumeralShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3660	TopMargin:	0

Vertical:	False	Visible:	True
Width:	1620		

**Label: Label33**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Elongation (%)
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label33	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	5100	LeftMargin:	0
LineSpacing:	0	Name:	Label33
NumeralShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3660	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1440		

**Label: Label34**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Area in Reduction (%)
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label34	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	1920	LeftMargin:	0
LineSpacing:	0	Name:	Label34
NumeralShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3660	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1740		

**Label: Label35**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Density (g/cc)
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label35	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	60	LeftMargin:	0

LineSpacing:	0	Name:	Label35
NumericalShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3060	TopMargin:	0
Vertical:	False	Visible:	True
Width:	2160		

**Label: Label36**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Poisson's Ratio
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label36	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	3720	LeftMargin:	0
LineSpacing:	0	Name:	Label36
NumericalShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3660	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1320		

**Label: Label4**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Name
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label4	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Label4
NumericalShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	660	TopMargin:	0
Vertical:	False	Visible:	True
Width:	8520		

**Label: Label48**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	References
ControlType:	100	DisplayWhen:	Always

EventProcPrefix:	Label48	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	1440	HelpContextId:	0
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Label48
NumeralShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	4860	TopMargin:	0
Vertical:	False	Visible:	True
Width:	9960		

**Label: Label5**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	UNS Number
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label5	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	8640	LeftMargin:	0
LineSpacing:	0	Name:	Label5
NumeralShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	660	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1380		

**Label: Label61**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	-
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label61	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	180	HelpContextId:	0
Left:	1080	LeftMargin:	0
LineSpacing:	0	Name:	Label61
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	3300	TopMargin:	0
Vertical:	False	Visible:	True
Width:	120		

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	-
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label62	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	180	HelpContextId:	0
Left:	3300	LeftMargin:	0
LineSpacing:	0	Name:	Label62
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	3300	TopMargin:	0
Vertical:	False	Visible:	True
Width:	120		

**Label: Label63**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	-
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label63	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	180	HelpContextId:	0
Left:	5640	LeftMargin:	0
LineSpacing:	0	Name:	Label63
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	3300	TopMargin:	0
Vertical:	False	Visible:	True
Width:	120		

**Label: Label64**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	-
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label64	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	180	HelpContextId:	0
Left:	8400	LeftMargin:	0
LineSpacing:	0	Name:	Label64
NumericalShapes:	System	OldBorderStyle:	0

ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	3300	TopMargin:	0
Vertical:	False	Visible:	True
Width:	120		

**Label: Label65**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	-
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label65	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	180	HelpContextId:	0
Left:	900	LeftMargin:	0
LineSpacing:	0	Name:	Label65
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	120		

**Label: Label66**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	-
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label66	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	180	HelpContextId:	0
Left:	2760	LeftMargin:	0
LineSpacing:	0	Name:	Label66
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	120		

**Label: Label67**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	-
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label67	FontBold:	No
FontItalic:	False	FontName:	Tahoma

FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	180	HelpContextId:	0
Left:	4320	LeftMargin:	0
LineSpacing:	0	Name:	Label67
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	120		

**Label: Label68**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	-
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label68	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	180	HelpContextId:	0
Left:	5760	LeftMargin:	0
LineSpacing:	0	Name:	Label68
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	120		

**Label: Label69**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	-
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label69	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	180	HelpContextId:	0
Left:	7380	LeftMargin:	0
LineSpacing:	0	Name:	Label69
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	120		

**Label: Label70**

BackColor:	16777215	BackStyle:	Transparent
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BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	-
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label70	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	180	HelpContextId:	0
Left:	9060	LeftMargin:	0
LineSpacing:	0	Name:	Label70
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	120		

**Label: Label94**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	-
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label94	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	180	HelpContextId:	0
Left:	900	LeftMargin:	0
LineSpacing:	0	Name:	Label94
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	4500	TopMargin:	0
Vertical:	False	Visible:	True
Width:	120		

**Label: Label95**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Specific Heat (J/Kg-K)
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label95	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	540	HelpContextId:	0
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Label95
NumericalShapes:	System	OldBorderStyle:	1
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat

TextAlign:	General	TextFontCharSet:	0
Top:	4260	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1800		

#### **Text Box: Poisson's Ratio**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Poisson's Ratio	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Poisson_s_Ratio	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	3780	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Poisson's Ratio	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	Measure of the poisson's ratio (low end of range)
TabIndex:	17	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	540		

#### **Text Box: Poisson's Ratio High**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Poisson's Ratio High	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Poisson_s_Ratio_High	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3

IsHyperlink:	False	KeyboardLanguage:	0
Left:	4440	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Poisson's Ratio High	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusbarText:	(High end of range)
TabIndex:	18	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	540		

#### **Text Box: References**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	3015
ControlSource:	References	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	References	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	1140
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	120	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	References	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusbarText:	Sources used to find the properties (low end of range)
TabIndex:	25	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	5100	TopMargin:	0
Vertical:	False	Visible:	True
Width:	9840		

#### **Text Box: Specific Heat (J/Kg-K)**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default

ControlSource:	Specific Heat	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Specific_Heat__J_Kg_K_	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	120	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Specific Heat (J/Kg-K)	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	Measure of the specific heat in joules per kilogram Kelvin (low end of range)
TabIndex:	26	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	4500	TopMargin:	0
Vertical:	False	Visible:	True
Width:	780		

#### Text Box: Specific Heat High

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Specific Heat High	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Specific_Heat_High	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	1020	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Specific Heat High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	(High end of range)
TabIndex:	27	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	4500	TopMargin:	0
Vertical:	False	Visible:	True

Width: 780

**Text Box: Temperature**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Temperature	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Temperature	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	8700	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Temperature	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusbarText:	Temperature of the materials when the properties were measured
TabIndex:	4	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	1500	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1260		

**Text Box: Tensile Strength (MPa)**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Tensile Strength	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Tensile_Strength__MPa_	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	8340	LeftMargin:	0

LineSpacing:	0	Locked:	False
Name:	Tensile Strength (MPa)	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	Measure of the tensile strength in megapascals (low end of range)
TabIndex:	23	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	720		

#### **Text Box: Tensile Strength High**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Tensile Strength High	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Tensile_Strength_High	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	9180	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Tensile Strength High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	(High end of range)
TabIndex:	24	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	780		

#### **Text Box: Test Sample Shape and Size Range**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	4800
ControlSource:	Test Sample Shape and Size Range	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False

EventProcPrefix:	Test_Sample_Shape_and_Size_Range	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	840
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	120	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Test Sample Shape and Size Range	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	Test sample shape and size range
TabIndex:	3	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	2100	TopMargin:	0
Vertical:	False	Visible:	True
Width:	9840		

#### **Text Box: Thermal Conductivity (W/m-K)**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Thermal Conductivity	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Thermal_Conductivity__W_m_K_	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	4620	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Thermal Conductivity (W/m-K)	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	Measure of the thermal conductivity in watts per meters Kelvin (low end of range)
TabIndex:	9	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3300	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1020		

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Thermal Conductivity High	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Thermal_Conductivity_High	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	5760	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Thermal Conductivity High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	(High end of range)
TabIndex:	10	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3300	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1020		

#### Text Box: UNS Number

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	UNS Number	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	UNS_Number	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
InputMask:	L00000	IsHyperlink:	False
KeyboardLanguage:		Left:	8700
LeftMargin:	0	LineSpacing:	0
Locked:	False	Name:	UNS Number

NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
ScrollBarAlign:	System	ScrollBars:	Neither
Section:	0	SpecialEffect:	Sunken
StatusBarText:	UNS designated number, also acts as the primary key	TabIndex:	1
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	900
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1260

#### **Text Box: Yield Strength (MPa)**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Yield Strength	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Yield_Strength__MPa_	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	6660	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Yield Strength (MPa)	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	Measure of the yield strength in megapascals (low end of range)
TabIndex:	21	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	720		

#### **Text Box: Yield Strength High**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Yield Strength High	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Yield_Strength_High	FilterLookup:	Database Default

FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	7500	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Yield Strength High	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusbarText:	(High end of range)
TabIndex:	22	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	660		

#### **Text Box: Young's Modulus (GPa)**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Young's Modulus	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Young_s_Modulus__GPa_	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	120	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Young's Modulus (GPa)	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusbarText:	Measure of the Young's modulus in gigapascals (low end of range)
TabIndex:	13	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	780		

#### **Text Box: Young's Modulus High**

AllowAutoCorrect:	True	AutoTab:	False
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BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlSource:	Young's Modulus High	ControlType:	109
DecimalPlaces:	Auto	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Young_s_Modulus_High	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	1020	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Young's Modulus High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	StatusBarText:	(High end of range)
TabIndex:	14	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	3900	TopMargin:	0
Vertical:	False	Visible:	True
Width:	780		

### User Permissions

Modify	admin Administrator akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Execute
	Han Reader User Xin	

### Group Permissions

Modify	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Execute
	Backup Operators Full Data Users Full Permissions New Data Users Project Designers Read-Only Users Update Data Users	Execute

Users

Read Permissions

**Properties**

AllowAdditions:	True	AllowDatasheetView:	False
AllowDeletions:	True	AllowDesignChanges:	True
AllowEditing:	True	AllowEdits:	True
AllowFilters:	True	AllowFormView:	True
AllowPivotChartView:	False	AllowPivotTableView:	False
AllowUpdating:	No	AutoCenter:	False
AutoSize:	True	BorderStyle:	Thin
CloseButton:	True	Container:	Forms
ControlBox:	True	Count:	97
CurrentView:	0	Cycle:	All Records
DataEntry:	False	DatasheetBackColor:	16777215
DatasheetBorderLineStyle:	1	DatasheetCellsEffect:	Flat
DatasheetColumnHeaderUnd	10	DatasheetFontHeight:	
DatasheetFontItalic:	False	DatasheetFontName:	Arial
DatasheetFontUnderline:	False	DatasheetFontWeight:	Normal
DatasheetForeColor:	0	DatasheetGridlinesBehavior:	Both
DatasheetGridlinesColor:	12632256	DateCreated:	7/15/2005 2:53:20 PM
DefaultEditing:	2	DefaultView:	Single Form
DividingLines:	False	FastLaserPrinting:	True
FetchDefaults:	True	FilterOn:	False
FrozenColumns:	1	GridX:	24
GridY:	24	GUID:	{guid {16460129-2396-459E-A1FF-68AF159DA25C}}
HasModule:	True	HelpContextId:	0
HorizontalDatasheetGridlineSt		Hwnd:	1967060
InsideHeight:	7905	InsideWidth:	10860
KeyPreview:	False	LastUpdated:	7/15/2005 2:53:20 PM
LayoutForPrint:	False	LogicalPageWidth:	9360
MaxButton:	False	MinButton:	False
MinMaxButtons:	None	Modal:	False
Moveable:	True	NameMap:	Long binary data
NavigationButtons:	False	OnLoad:	[Event Procedure]
OrderByOn:	False	Orientation:	Left-to-Right
Owner:	akorinda	Painting:	True
PaletteSource:	(Default)	Picture:	(none)
PictureAlignment:	Center	PictureSizeMode:	Clip
PictureTiling:	False	PictureType:	0
PopUp:	False	PrtDevMode:	Long binary data
PrtDevNames:	Long binary data	PrtMip:	Long binary data
RecordLocks:	All Records	RecordSelectors:	False
RecordsetType:	Dynaset	RowHeight:	Default
ScrollBars:	Neither	ShortcutMenu:	True
ShowGrid:	True	SubdatasheetExpanded:	False
SubdatasheetHeight:	0	TimerInterval:	0
UserName:	akorinda	VerticalDatasheetGridlineStyle	1
ViewsAllowed:	Form	Visible:	False
WhatsThisButton:	False	Width:	10860
WindowHeight:	8730	WindowLeft:	1080
WindowTop:	480	WindowWidth:	11295

## Objects

### **Section: Detail**

BackColor:	39423	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	Detail	ForceNewPage:	None
HasContinued:	False	Height:	7200
InSelection:	False	KeepTogether:	False
Name:	Detail	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

### **Section: FormFooter**

BackColor:	39423	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	FormFooter	ForceNewPage:	None
HasContinued:	False	Height:	120
InSelection:	False	KeepTogether:	False
Name:	FormFooter	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

### **Section: FormHeader**

BackColor:	39423	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	FormHeader	ForceNewPage:	None
HasContinued:	False	Height:	600
InSelection:	False	KeepTogether:	False
Name:	FormHeader	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

### **Check Box: CheckMAD**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	106
DefaultValue:	0	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CheckMAD
Height:	240	HelpContextId:	0
Left:	6780	Locked:	False
Name:	CheckMAD	OldBorderStyle:	1
ReadingOrder:	Context	Section:	0
SpecialEffect:	Sunken	TabIndex:	35
TabStop:	True	Top:	810
TripleState:	False	Visible:	True
Width:	260		

### **Check Box: CheckMAP**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	106
DefaultValue:	0	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CheckMAP
Height:	240	HelpContextId:	0
Left:	6780	Locked:	False

Name:	CheckMAP	OldBorderStyle:	1
ReadingOrder:	Context	Section:	0
SpecialEffect:	Sunken	TabIndex:	37
TabStop:	True	Top:	1590
TripleState:	False	Visible:	True
Width:	260		

**Check Box: CheckMAS**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	106
DefaultValue:	0	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CheckMAS
Height:	240	HelpContextId:	0
Left:	6780	Locked:	False
Name:	CheckMAS	OldBorderStyle:	1
ReadingOrder:	Context	Section:	0
SpecialEffect:	Sunken	TabIndex:	36
TabStop:	True	Top:	1200
TripleState:	False	Visible:	True
Width:	260		

**Check Box: CheckMTC**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	106
DefaultValue:	0	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CheckMTC
Height:	240	HelpContextId:	0
Left:	4980	Locked:	False
Name:	CheckMTC	OldBorderStyle:	1
ReadingOrder:	Context	Section:	0
SpecialEffect:	Sunken	TabIndex:	31
TabStop:	True	Top:	810
TripleState:	False	Visible:	True
Width:	260		

**Check Box: CheckMTI**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	106
DefaultValue:	0	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CheckMTI
Height:	240	HelpContextId:	0
Left:	4980	Locked:	False
Name:	CheckMTI	OldBorderStyle:	1
ReadingOrder:	Context	Section:	0
SpecialEffect:	Sunken	TabIndex:	32
TabStop:	True	Top:	1200
TripleState:	False	Visible:	True
Width:	260		

**Check Box: CheckMTS**

BorderColor:	0	BorderLineStyle:	Solid
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BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	106
DefaultValue:	0	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CheckMTS
Height:	240	HelpContextId:	0
Left:	4980	Locked:	False
Name:	CheckMTS	OldBorderStyle:	1
ReadingOrder:	Context	Section:	0
SpecialEffect:	Sunken	TabIndex:	33
TabStop:	True	Top:	1590
TripleState:	False	Visible:	True
Width:	260		

**Command Button: CommandCP**

AutoRepeat:	False	Cancel:	False
Caption:	Clear Form	ControlType:	104
Default:	False	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	CommandCP
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	420
HelpContextId:	0	Left:	420
Name:	CommandCP	OnClick:	=ClearProperties()
Picture:	(none)	PictureType:	0
ReadingOrder:	Context	Section:	0
TabIndex:	39	TabStop:	True
TextFontCharSet:	0	Top:	6540
Transparent:	False	Visible:	True
Width:	960		

**Option Group: Frame116**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Frame116	Height:	1498
HelpContextId:	0	Left:	4800
Locked:	False	Name:	Frame116
OldBorderStyle:	1	Section:	0
SpecialEffect:	Etched	TabIndex:	30
TabStop:	True	Top:	540
Visible:	True	Width:	1625

**Option Group: Frame145**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DefaultValue:	1	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	Frame145
Height:	1498	HelpContextId:	0
Left:	6600	Locked:	False

Name:	Frame145	OldBorderStyle:	1
Section:	0	SpecialEffect:	Etched
TabIndex:	34	TabStop:	True
Top:	540	Visible:	True
Width:	2346		

**Option Group: Frame63**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DefaultValue:	1	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	Frame63
Height:	1498	HelpContextId:	0
Left:	300	Locked:	False
Name:	Frame63	OldBorderStyle:	1
Section:	0	SpecialEffect:	Etched
TabIndex:	0	TabStop:	True
Top:	540	Visible:	True
Width:	4322		

**Option Group: Frame68**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DefaultValue:	1	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	Frame68
Height:	4738	HelpContextId:	0
Left:	300	Locked:	False
Name:	Frame68	OldBorderStyle:	1
Section:	0	SpecialEffect:	Etched
TabIndex:	4	TabStop:	True
Top:	2340	Visible:	True
Width:	10326		

**Option Group: FrameResults**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ColumnHidden:	False	ColumnOrder:	Default
ColumnWidth:	Default	ControlType:	107
DefaultValue:	1	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	FrameResults
Height:	1498	HelpContextId:	0
Left:	9120	Locked:	False
Name:	FrameResults	OldBorderStyle:	1
Section:	0	SpecialEffect:	Etched
TabIndex:	38	TabStop:	True
Top:	540	Visible:	True
Width:	1506		

**Label: Label0**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid

BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	MST Materials Database
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label0	FontBold:	Yes
FontItalic:	False	FontName:	Tahoma
FontSize:	20	FontUnderline:	False
FontWeight:	Heavy	ForeColor:	0
Height:	600	HelpContextId:	0
Left:	0	LeftMargin:	0
LineSpacing:	0	Name:	Label0
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	1	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	0	TopMargin:	0
Vertical:	False	Visible:	True
Width:	10080		

**Label: Label1**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Search Database
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label1	FontBold:	Yes
FontItalic:	False	FontName:	Tahoma
FontSize:	12	FontUnderline:	False
FontWeight:	Bold	ForeColor:	0
Height:	360	HelpContextId:	0
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Label1
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	0	TopMargin:	0
Vertical:	False	Visible:	True
Width:	10020		

**Label: Label103**

BackColor:	39423	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	View Results as:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label103	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	9240	LeftMargin:	0
LineSpacing:	0	Name:	Label103
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0

Top:	420	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1245		

**Label: Label106**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Report
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label106	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	9536	LeftMargin:	0
LineSpacing:	0	Name:	Label106
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	750	TopMargin:	0
Vertical:	False	Visible:	True
Width:	570		

**Label: Label108**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Form
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label108	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	9536	LeftMargin:	0
LineSpacing:	0	Name:	Label108
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	1080	TopMargin:	0
Vertical:	False	Visible:	True
Width:	435		

**Label: Label11**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Name:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label11	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0

Left:	420	LeftMargin:	0
LineSpacing:	0	Name:	Label11
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	780	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1020		

**Label: Label112**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Specific Heat:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label112	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	6180	LeftMargin:	0
LineSpacing:	0	Name:	Label112
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	6126	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1665		

**Label: Label114**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	J/Kg-K
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label114	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	239	HelpContextId:	0
Left:	9960	LeftMargin:	0
LineSpacing:	0	Name:	Label114
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	6120	TopMargin:	0
Vertical:	False	Visible:	True
Width:	599		

**Label: Label117**

BackColor:	39423	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Material Type(s)

ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label117	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	4920	LeftMargin:	0
LineSpacing:	0	Name:	Label117
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	420	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1245		

**Label: Label140**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Conductor
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label140	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	5205	LeftMargin:	0
LineSpacing:	0	Name:	Label140
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	780	TopMargin:	0
Vertical:	False	Visible:	True
Width:	825		

**Label: Label142**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Insulator
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label142	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	5210	LeftMargin:	0
LineSpacing:	0	Name:	Label142
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	1170	TopMargin:	0
Vertical:	False	Visible:	True

Width: 780

**Label: Label144**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Structural
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label144	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	5210	LeftMargin:	0
LineSpacing:	0	Name:	Label144
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	1560	TopMargin:	0
Vertical:	False	Visible:	True
Width:	780		

**Label: Label146**

BackColor:	39423	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Magnet Application(s)
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label146	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	6720	LeftMargin:	0
LineSpacing:	0	Name:	Label146
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	420	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1635		

**Label: Label151**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	DC Magnets
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label151	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	7005	LeftMargin:	0
LineSpacing:	0	Name:	Label151

NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	780	TopMargin:	0
Vertical:	False	Visible:	True
Width:	945		

**Label: Label153**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Superconducting Magnets
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label153	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	7005	LeftMargin:	0
LineSpacing:	0	Name:	Label153
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	1170	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1935		

**Label: Label155**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Pulse Magnets
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label155	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	7005	LeftMargin:	0
LineSpacing:	0	Name:	Label155
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	1560	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1110		

**Label: Label16**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	UNS Number:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label16	FontBold:	No

FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	360	HelpContextId:	0
Left:	420	LeftMargin:	0
LineSpacing:	0	Name:	Label16
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	1140	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1020		

**Label: Label19**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Density:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label19	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	1380	LeftMargin:	0
LineSpacing:	0	Name:	Label19
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	3240	TopMargin:	0
Vertical:	False	Visible:	True
Width:	675		

**Label: Label21**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Cost:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label21	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	1380	LeftMargin:	0
LineSpacing:	0	Name:	Label21
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	3600	TopMargin:	0
Vertical:	False	Visible:	True
Width:	660		

**Label: Label23**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Poisson's Ratio:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label23	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	6630	LeftMargin:	0
LineSpacing:	0	Name:	Label23
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	5400	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1215		

**Label: Label25**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Elongation:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label25	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	6960	LeftMargin:	0
LineSpacing:	0	Name:	Label25
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	4320	TopMargin:	0
Vertical:	False	Visible:	True
Width:	900		

**Label: Label27**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Yield Strength:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label27	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	6705	LeftMargin:	0
LineSpacing:	0	Name:	Label27
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0

Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	4680	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1155		

**Label: Label29**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Electrical Resistivity:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label29	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	480	LeftMargin:	0
LineSpacing:	0	Name:	Label29
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	4740	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1545		

**Label: Label31**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Thermal Conductivity:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label31	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	6180	LeftMargin:	0
LineSpacing:	0	Name:	Label31
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	5760	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1665		

**Label: Label33**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Coefficient of Thermal Expansion:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label33	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False

FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	5340	LeftMargin:	0
LineSpacing:	0	Name:	Label33
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	3240	TopMargin:	0
Vertical:	False	Visible:	True
Width:	2520		

**Label: Label35**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Young's Modulus:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label35	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	6525	LeftMargin:	0
LineSpacing:	0	Name:	Label35
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	3600	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1335		

**Label: Label37**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Area in Reduction:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label37	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	6435	LeftMargin:	0
LineSpacing:	0	Name:	Label37
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	3960	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1425		

**Label: Label38**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid

BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	General:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label38	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Semi-bold	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	360	LeftMargin:	0
LineSpacing:	0	Name:	Label38
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	2580	TopMargin:	0
Vertical:	False	Visible:	True
Width:	4620		

**Label: Label39**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Mechanical:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label39	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Semi-bold	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	5160	LeftMargin:	0
LineSpacing:	0	Name:	Label39
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	2580	TopMargin:	0
Vertical:	False	Visible:	True
Width:	5400		

**Label: Label40**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Electrical:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label40	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Semi-bold	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	360	LeftMargin:	0
LineSpacing:	0	Name:	Label40
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0

Top:	4080	TopMargin:	0
Vertical:	False	Visible:	True
Width:	4560		

**Label: Label42**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Tensile Strength:
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label42	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	6525	LeftMargin:	0
LineSpacing:	0	Name:	Label42
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Right	TextFontCharSet:	0
Top:	5040	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1320		

**Label: Label43**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Minimum
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label43	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	2040	LeftMargin:	0
LineSpacing:	0	Name:	Label43
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	2880	TopMargin:	0
Vertical:	False	Visible:	True
Width:	900		

**Label: Label44**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Maximum
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label44	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0

Left:	3120	LeftMargin:	0
LineSpacing:	0	Name:	Label44
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	2880	TopMargin:	0
Vertical:	False	Visible:	True
Width:	900		

**Label: Label45**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Units
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label45	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	4200	LeftMargin:	0
LineSpacing:	0	Name:	Label45
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	2880	TopMargin:	0
Vertical:	False	Visible:	True
Width:	600		

**Label: Label55**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Minimum
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label55	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	2040	LeftMargin:	0
LineSpacing:	0	Name:	Label55
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	4380	TopMargin:	0
Vertical:	False	Visible:	True
Width:	900		

**Label: Label56**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Maximum

ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label56	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	3120	LeftMargin:	0
LineSpacing:	0	Name:	Label56
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	4380	TopMargin:	0
Vertical:	False	Visible:	True
Width:	900		

**Label: Label57**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Units
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label57	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	4200	LeftMargin:	0
LineSpacing:	0	Name:	Label57
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	4380	TopMargin:	0
Vertical:	False	Visible:	True
Width:	600		

**Label: Label58**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Minimum
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label58	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	7860	LeftMargin:	0
LineSpacing:	0	Name:	Label58
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	2880	TopMargin:	0
Vertical:	False	Visible:	True

Width: 900

**Label: Label59**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Maximum
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label59	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	8910	LeftMargin:	0
LineSpacing:	0	Name:	Label59
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	Center	TextFontCharSet:	0
Top:	2880	TopMargin:	0
Vertical:	False	Visible:	True
Width:	900		

**Label: Label60**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Units
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label60	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	9960	LeftMargin:	0
LineSpacing:	0	Name:	Label60
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	2880	TopMargin:	0
Vertical:	False	Visible:	True
Width:	600		

**Label: Label64**

BackColor:	39423	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Name
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label64	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	10	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	300	HelpContextId:	0
Left:	420	LeftMargin:	0
LineSpacing:	0	Name:	Label64

NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	420	TopMargin:	0
Vertical:	False	Visible:	True
Width:	600		

**Label: Label69**

BackColor:	39423	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Properties
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label69	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	10	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	300	HelpContextId:	0
Left:	420	LeftMargin:	0
LineSpacing:	0	Name:	Label69
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	2220	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1020		

**Label: Label89**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	g/cc
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label89	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	239	HelpContextId:	0
Left:	4200	LeftMargin:	0
LineSpacing:	0	Name:	Label89
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3240	TopMargin:	0
Vertical:	False	Visible:	True
Width:	599		

**Label: Label90**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	\$/kg
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label90	FontBold:	No

FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	239	HelpContextId:	0
Left:	4200	LeftMargin:	0
LineSpacing:	0	Name:	Label90
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3600	TopMargin:	0
Vertical:	False	Visible:	True
Width:	599		

**Label: Label91**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	$\mu\Omega\text{-cm}$
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label91	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	239	HelpContextId:	0
Left:	4200	LeftMargin:	0
LineSpacing:	0	Name:	Label91
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	4740	TopMargin:	0
Vertical:	False	Visible:	True
Width:	599		

**Label: Label92**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	$\mu\text{m}/\text{m}\text{-K}$
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label92	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	240	HelpContextId:	0
Left:	9960	LeftMargin:	0
LineSpacing:	0	Name:	Label92
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3240	TopMargin:	0
Vertical:	False	Visible:	True
Width:	615		

**Label: Label93**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	GPa
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label93	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	239	HelpContextId:	0
Left:	9960	LeftMargin:	0
LineSpacing:	0	Name:	Label93
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3600	TopMargin:	0
Vertical:	False	Visible:	True
Width:	599		

**Label: Label94**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	%
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label94	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	239	HelpContextId:	0
Left:	9960	LeftMargin:	0
LineSpacing:	0	Name:	Label94
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3959	TopMargin:	0
Vertical:	False	Visible:	True
Width:	599		

**Label: Label95**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	%
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label95	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	239	HelpContextId:	0
Left:	9960	LeftMargin:	0
LineSpacing:	0	Name:	Label95
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0

Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	4318	TopMargin:	0
Vertical:	False	Visible:	True
Width:	599		

**Label: Label96**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	MPa
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label96	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	239	HelpContextId:	0
Left:	9960	LeftMargin:	0
LineSpacing:	0	Name:	Label96
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	4677	TopMargin:	0
Vertical:	False	Visible:	True
Width:	599		

**Label: Label97**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	MPa
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label97	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	239	HelpContextId:	0
Left:	9960	LeftMargin:	0
LineSpacing:	0	Name:	Label97
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	5036	TopMargin:	0
Vertical:	False	Visible:	True
Width:	599		

**Label: Label99**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	W/m-K
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label99	FontBold:	No
FontItalic:	False	FontName:	Tahoma
FontSize:	8	FontUnderline:	False

FontWeight:	Normal	ForeColor:	0
Height:	239	HelpContextId:	0
Left:	9960	LeftMargin:	0
LineSpacing:	0	Name:	Label99
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	5754	TopMargin:	0
Vertical:	False	Visible:	True
Width:	599		

**Line: Line73**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line73	Height:	0
Left:	5160	LineSlant:	False
Name:	Line73	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	2820	Visible:	True
Width:	5400		

**Line: Line74**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line74	Height:	0
Left:	360	LineSlant:	False
Name:	Line74	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	2820	Visible:	True
Width:	4620		

**Line: Line75**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	Line75	Height:	0
Left:	360	LineSlant:	False
Name:	Line75	OldBorderStyle:	1
Section:	0	SpecialEffect:	Flat
Top:	4320	Visible:	True
Width:	4560		

**Command Button: Name search**

AutoRepeat:	False	Cancel:	False
Caption:	Search	ControlType:	104
Default:	False	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	Name_search
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	405
HelpContextId:	0	Left:	3720
Name:	Name search	OnClick:	=NameSearchClick()
Picture:	(none)	PictureType:	0

ReadingOrder:	Context	Section:	0
TabIndex:	3	TabStop:	True
TextFontCharSet:	0	Top:	1560
Transparent:	False	Visible:	True
Width:	735		

**Text Box: Namebox**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Namebox	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	1440	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Namebox	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	1
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	780
TopMargin:	0	Vertical:	False
Visible:	True	Width:	3060

**Option Button: OptionForm**

BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ControlType:	105	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	OptionForm
Height:	240	HelpContextId:	0
Left:	9306	Locked:	False
Name:	OptionForm	OldBorderStyle:	1
OptionValue:	2	ReadingOrder:	Context
Section:	0	SpecialEffect:	Sunken
Top:	1108	Visible:	True
Width:	260		

**Option Button: OptionReport**

BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ControlType:	105	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	OptionReport
Height:	240	HelpContextId:	0

Left:	9306	Locked:	False
Name:	OptionReport	OldBorderStyle:	1
OptionValue:	1	ReadingOrder:	Context
Section:	0	SpecialEffect:	Sunken
Top:	778	Visible:	True
Width:	260		

#### **Command Button: Properties Search**

AutoRepeat:	False	Cancel:	False
Caption:	Search	ControlType:	104
Default:	False	DisplayWhen:	Always
Enabled:	True	EventProcPrefix:	Properties_Search
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	405
HelpContextId:	0	Left:	9720
Name:	Properties Search	OnClick:	=PropertiesSearchClick()
Picture:	(none)	PictureType:	0
ReadingOrder:	Context	Section:	0
TabIndex:	29	TabStop:	True
TextFontCharSet:	0	Top:	6600
Transparent:	False	Visible:	True
Width:	734		

#### **Text Box: Text1**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text1	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	2040	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text1	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	5
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	3240
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text10	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	8940	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text10	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	14
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	3600
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

#### **Text Box: Text11**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text11	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	7875	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text11	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context

RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	15
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	3960
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text12**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text12	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0

Left:	8940	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text12	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	16
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	3960
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text13**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text13	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False

IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	7860	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text13	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	17
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	4320
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text14**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text14	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0

Left:	8940	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text14	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	18
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	4320
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text15**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always

Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text15	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	7875	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text15	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	19
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	4680
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text16**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text16	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0

Left:	8940	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text16	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	20
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	4680
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text17**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text17	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	7860	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text17	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	21
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	5040
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text18**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text18	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	8925	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text18	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	22
TabStop:	True	TextAlign:	General

TextFontCharSet:	0	Top:	5040
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text19**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text19	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	7860	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text19	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	23
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	5400
TopMargin:	0	Vertical:	False
Visible:	True	Width:	885

**Text Box: Text2**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text2	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	3120	LeftMargin:	0

LineSpacing:	0	Locked:	False
Name:	Text2	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	6
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	3240
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text20**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text20	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0

Left:	8925	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text20	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	24
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	5400
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text21**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text21	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8

FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	7860	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text21	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	25
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	5760
TopMargin:	0	Vertical:	False
Visible:	True	Width:	885

**Text Box: Text22**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text22	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0

Left:	8925	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text22	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	26
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	5760
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text23**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False

ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text23	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	7860	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text23	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	27
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	6126
TopMargin:	0	Vertical:	False
Visible:	True	Width:	885

#### **Text Box: Text24**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text24	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	8925	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text24	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	28
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	6126
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text3	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	2040	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text3	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	7
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	3600
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

#### **Text Box: Text4**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text4	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	3120	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text4	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context

RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	8
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	3600
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text5**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text5	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	2040	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text5	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	9
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	4740
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

**Text Box: Text6**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text6	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False

IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	3120	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text6	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	10
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	4740
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

#### **Text Box: Text7**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text7	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0

Left:	7875	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text7	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	11
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	3240
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

#### **Text Box: Text8**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always

Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text8	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	8940	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text8	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	12
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	3240
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

#### **Text Box: Text9**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	Text9	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0

Left:	7875	LeftMargin:	0
LineSpacing:	0	Locked:	False
Name:	Text9	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	ScrollBarAlign:	System
ScrollBars:	Neither	Section:	0
SpecialEffect:	Sunken	TabIndex:	13
TabStop:	True	TextAlign:	General
TextFontCharSet:	0	Top:	3600
TopMargin:	0	Vertical:	False
Visible:	True	Width:	900

#### **Text Box: UNSbox**

AllowAutoCorrect:	True	AutoTab:	False
BackColor:	16777215	BackStyle:	Normal

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ColumnHidden:	False
ColumnOrder:	Default	ColumnWidth:	Default
ControlType:	109	DecimalPlaces:	Auto
DefaultValue:	=""	DisplayWhen:	Always
Enabled:	True	EnterKeyBehavior:	False
EventProcPrefix:	UNSbox	FilterLookup:	Database Default
FontBold:	No	FontItalic:	False
FontName:	Tahoma	FontSize:	8
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	240
HelpContextId:	0	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
InputMask:	L00000	Ishyperlink:	False
KeyboardLanguage:		0	Left: 1440
LeftMargin:	0	LineSpacing:	0
Locked:	False	Name:	UNSbox
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
ScrollBarAlign:	System	ScrollBars:	Neither
Section:	0	SpecialEffect:	Sunken
TabIndex:	2	TabStop:	True
TextAlign:	General	TextFontCharSet:	0
Top:	1140	TopMargin:	0
Vertical:	False	Visible:	True
Width:	840		

Code

```

1 VERSION 1.0 CLASS
2 BEGIN
3 MultiUse = -1 'True
4 END
5 Attribute VB_Name = "Form_Search Form"
6 Attribute VB_GlobalNameSpace = False
7 Attribute VB_Creatable = True
8 Attribute VB_PredeclaredId = True
9 Attribute VB_Exposed = False
10 Public FNam As String 'Stores the search field name
11 Public d As Integer 'See function
12 Public conTexts As Integer 'Number of textboxes in the property field
13 Public strSQL As String 'Hold SQL statement where condition
14 Public strSQLrs As String 'Hold complete SQL statement for ADO stream search
15 Public rs As Object 'For ADO stream
16 Public con As Object 'For ADO stream
17 Public E As Integer 'If E=1 then exit function
18 Public p As Integer 'To determine the need for a ")
19
20 Private Sub Form_Load()
21
22 conTexts = 24

```

```
23 E = 0
24
25 End Sub
26
27 Private Function PropertiesSearchClick()
28
29 Dim a As Integer 'Tracks the textboxes checked
30 Dim b As Single 'Determine if Max or Min textbox
31 Dim v As String 'Holds value of textbox
32 Dim x As Integer 'For use in For Next Loops
33
34 d = 0 'If 1 then skip that textbox (no matching field in table)
35 a = 0
36
37 'Determine search parameters
38 SearchParameters 1
39
40 'Get first search value
41 For x = 1 To conTexts
42   v = Nz(Me("Text" & x).Value, "")
43   If Not IsNull(v) And Trim(v) <> "" Then
44     BoxToField x
45     If d = 0 Then
46       b = x Mod 2
47       If b = 1 Then
48         strSQL = strSQL & " AND (Properties.[" & FNam & "] >= " & v
49         strSQLrs = strSQLrs & " AND ([" & FNam & "] >= " & v
50       ElseIf b = 0 Then
51         strSQL = strSQL & " AND (Properties.[" & FNam & "] <= " & v
52         strSQLrs = strSQLrs & " AND ([" & FNam & "] <= " & v
53       Else
54         MsgBox "There was an error executing the search.", vbCritical
55         Exit Function
56       End If
57       a = x + 1
58       x = conTexts + 1
59     End If
60   End If
61   d = 0
62 Next
63
64
65 'If no values have been entered then a=0 still and program does nothing
66 If a = 0 Then Exit Function
67
68 'Collect all other search values
69 For x = a To conTexts
70   If Not IsNull(Me("Text" & x).Value) And Trim(Me("Text" & x).Value) <> "" Then
71     v = Me("Text" & x).Value
72     BoxToField x
73     If d = 0 Then
74       b = x Mod 2
75       If b = 1 Then
76         strSQL = strSQL & " AND Properties.[" & FNam & "] >= " & v
```

```
77      strSQLrs = strSQLrs & " AND [" & FNam & "] >= " & v
78      ElseIf b = 0 Then
79          strSQL = strSQL & " AND Properties.[" & FNam & "] <= " & v
80          strSQLrs = strSQLrs & " AND [" & FNam & "] <= " & v
81      Else
82          MsgBox "There was an error executing the search.", vbCritical
83          Exit Function
84      End If
85  End If
86  End If
87  d = 0
88 Next
89
90 'Seal SQL's
91 strSQL = strSQL & ")"
92 strSQLrs = strSQLrs & ")"
93
94 'See if search is too complex to display
95 If Len(strSQL) > 4929 Then
96     MsgBox "Your search is too complex, please generalize your search, or if you are searching a
particular material use the name search.", vbExclamation, "Too Complex"
97     CommandCP.SetFocus
98     Exit Function
99 End If
100
101 'See if there are any results
102 TestforResults 1
103 If E = 1 Then Exit Function
104
105 'Find how User wishes to see search results and present the data
106 If FrameResults.Value = 1 Then
107     DoCmd.OpenReport "Materials", acViewPreview, , strSQL
108 ElseIf FrameResults.Value = 2 Then
109     DoCmd.OpenForm "Materials", acNormal, , strSQL, acFormReadOnly
110 Else
111     MsgBox "You must select how you would like to see the data.", vbInformation, "Select View"
112     OptionReport.SetFocus
113     Exit Function
114 End If
115
116 End Function
117
118 Private Function NameSearchClick()
119
120 'Declare variables
121 Dim UNS As String 'Will hold the desired UNS number of material
122 Dim Nam As String 'Will hold the desired name of material
123 Dim f As Integer 'To determine where to set focus
124
125 'Get values entered by user, prefer to use UNS number in search
126 UNS = Nz(UNSbox.Value)
127 If UNS = "" Then 'Search by Name
128     f = 1
129     Nam = Nz(Namebox.Value)
```

```
130  If Nam = "" Then Exit Function 'If no search items have been entered then do nothing
131
132  'Search in names tables for correct UNS
133  Set con = Application.CurrentProject.Connection
134  Set rs = CreateObject("ADODB.Recordset")
135  strSQL = "SELECT * FROM [Other Names] WHERE [Name] LIKE '%' & Nam & '%'"
136  rs.Open strSQL, con, 1 ' 1 = adOpenKeyset
137  If (rs.EOF) Then
138      rs.Close
139      Set rs = CreateObject("ADODB.Recordset")
140      strSQL = "SELECT * FROM [Materials] WHERE [Common Name] LIKE '%' & Nam & '%'"
141      rs.Open strSQL, con, 1 ' 1 = adOpenKeyset
142      If (rs.EOF) Then
143          MsgBox "Name not Found", vbInformation, "Not Found"
144          rs.Close
145          Set rs = Nothing
146          Set con = Nothing
147          Exit Function
148      End If
149  End If
150
151  'Set WhereCondition
152  SearchParameters 2
153  If E = 1 Then Exit Function
154  'Values to check
155  UNS = rs![UNS Number]
156  If p = 1 Then
157      strSQL = strSQL & " AND (Materials.[UNS Number]='' & UNS & "")"
158      strSQLrs = strSQLrs & " AND ([UNS Number]='' & UNS & "")"
159  Else
160      strSQL = strSQL & " Materials.[UNS Number]='' & UNS & }}"
161      strSQLrs = strSQLrs & " [UNS Number]='' & UNS & }}"
162  End If
163  rs.MoveNext
164  While (Not (rs.EOF))
165      If UNS <> rs![UNS Number] Then
166          UNS = rs![UNS Number]
167          strSQL = strSQL & " OR Materials.[UNS Number]='' & UNS & }}"
168          strSQLrs = strSQLrs & " OR [UNS Number]='' & UNS & }}"
169      End If
170      rs.MoveNext
171  Wend
172  If p = 1 Then
173      strSQL = strSQL & ")"
174      strSQLrs = strSQLrs & ")"
175  End If
176
177  'Test for Results
178  TestforResults 2
179  If E = 1 Then Exit Function
180
181 Else 'Search by UNS Number
182     f = 2
183     'Set WhereCondition and determine search parameters
```

```
184  SearchParameters 2
185  If E = 1 Then Exit Function
186  If p = 1 Then
187      strSQL = strSQL & " AND Materials.[UNS Number]="" & UNS & """
188      strSQLrs = strSQLrs & " AND Materials.[UNS Number]="" & UNS & """
189  Else
190      strSQL = "Materials.[UNS Number]="" & UNS & """
191      strSQLrs = "[UNS Number]="" & UNS & """
192  End If
193  'Find if it exists in the database
194  TestforResults 2
195  If E = 1 Then Exit Function
196  'Values to check
197 End If
198
199 'See if too many results were found to display
200 If Len(strSQL) > 4929 Then
201     MsgBox "Too many results were found. Please refine your search and try again.",  

vbExclamation,  

    "Too Many Results"
202     If f = 1 Then
203         Namebox.SetFocus
204     ElseIf f = 2 Then
205         UNSbox.SetFocus
206     Else
207         MsgBox "What did you do? This is never supposed to appear, go and sit in the corner for  

the
next 10 minutes.", vbCritical, "??????????"
208     End If
209     Exit Function
210 End If
211
212 'Find how User wishes to see search results and present the data
213 If FrameResults.Value = 1 Then
214     DoCmd.OpenReport "Materials", acViewPreview, , strSQL
215 ElseIf FrameResults.Value = 2 Then
216     DoCmd.OpenForm "Materials", acNormal, , strSQL, acFormReadOnly
217 Else
218     MsgBox "You must select how you would like to see the data.", vbInformation, "Select View"
219     OptionReport.SetFocus
220     Exit Function
221 End If
222
223 End Function
224
225 Sub BoxToField(x)
226
227 Select Case x
228     Case 1
229         FNam = "Density"
230     Case 2
231         FNam = "Density High"
232     Case 3
233         d = 1
234     Case 4
235         d = 1
236     Case 5
```

```
237      FNam = "Electrical Resistivity"
238  Case 6
239      FNam = "Electrical Resistivity High"
240  Case 7
241      FNam = "Coefficient of Thermal Expansion"
242  Case 8
243      FNam = "Coefficient of Thermal Expansion High"
244  Case 9
245      FNam = "Young's Modulus"
246  Case 10
247      FNam = "Young's Modulus High"
248  Case 11
249      FNam = "Area in Reduction"
250  Case 12
251      FNam = "Area in Reduction High"
252  Case 13
253      FNam = "Elongation"
254  Case 14
255      FNam = "Elongation High"
256  Case 15
257      FNam = "Yield Strength"
258  Case 16
259      FNam = "Yield Strength High"
260  Case 17
261      FNam = "Tensile Strength"
262  Case 18
263      FNam = "Tensile Strength High"
264  Case 19
265      FNam = "Poisson's Ratio"
266  Case 20
267      FNam = "Poisson's Ratio High"
268  Case 21
269      FNam = "Thermal Conductivity"
270  Case 22
271      FNam = "Thermal Conductivity High"
272  Case 23
273      FNam = "Specific Heat"
274  Case 24
275      FNam = "Specific Heat High"
276  Case Else
277      MsgBox "Field not coded for, will not be searched.", vbInformation, "VBA Lacking"
278 End Select
279
280 End Sub
281
282 Sub SearchParameters(x)
283
284 Dim TNam As String 'Stores the Table to search
285
286 E = 0
287
288 'Determine the table to use
289 If x = 1 Then
290     TNam = "Fixed Data"
```

```
291 ElseIf x = 2 Then
292   TNam = "Materials"
293 Else
294   MsgBox "Could not select table to search", vbCritical, "Error"
295   E = 1
296   Exit Sub
297 End If
298
299 'Create SQL statements
300   'strSQL for use in opening report or form
301   'strSQLrs for use in ADO stream search for possible results
302 p = 0
303 strSQL = ""
304 strSQLrs = "SELECT * FROM [" & TNam & "] WHERE "
305
306 'Check type of material parameter
307 If CheckMTC.Value = 0 And CheckMTI.Value = 0 And CheckMTS.Value = 0 Then 'If none
selected
then assume all
308   p = 1
309   strSQL = "(Materials.[Material Type] LIKE '*C*' OR Materials.[Material Type] LIKE '*I*' OR
Materials.[Material Type] LIKE '*S*'"
310   strSQLrs = strSQLrs & "([Material Type] LIKE '%C%' OR [Material Type] LIKE '%I%' OR
[Material Type] LIKE '%S%'"
311 ElseIf CheckMTC.Value <> 0 Then
312   p = 1
313   strSQL = "(Materials.[Material Type] LIKE '*C*'"
314   strSQLrs = strSQLrs & "([Material Type] LIKE '%C%''"
315   If CheckMTI.Value <> 0 Then
316     strSQL = strSQL & " OR Materials.[Material Type] LIKE '*I*'"
317     strSQLrs = strSQLrs & " OR [Material Type] LIKE '%I%''"
318   End If
319   If CheckMTS.Value <> 0 Then
320     strSQL = strSQL & " OR Materials.[Material Type] LIKE '*S*'"
321     strSQLrs = strSQLrs & " OR [Material Type] LIKE '%S%''"
322   End If
323 ElseIf CheckMTI.Value <> 0 Then
324   p = 1
325   strSQL = "(Materials.[Material Type] LIKE '*I*'"
326   strSQLrs = strSQLrs & "([Material Type] LIKE '%I%''"
327   If CheckMTS.Value <> 0 Then
328     strSQL = strSQL & " OR Materials.[Material Type] LIKE '*S*'"
329     strSQLrs = strSQLrs & " OR [Material Type] LIKE '%S%''"
330   End If
331 ElseIf CheckMTS.Value <> 0 Then
332   p = 1
333   strSQL = "(Materials.[Material Type] LIKE '*S*'"
334   strSQLrs = strSQLrs & "([Material Type] LIKE '%S%''"
335 Else
336   MsgBox "Error with material type, please try your search again.", vbCritical, "Error"
337   E = 1
338   Exit Sub
339 End If
340 'Add ")"
341 If p = 1 Then
342   strSQL = strSQL & ")"
```

```
343     strSQLrs = strSQLrs & ")"
344 End If
345
346 'Check material applications parameter
347 If CheckMAD.Value = 0 And CheckMAS.Value = 0 And CheckMAP.Value = 0 Then 'If none
selected
then assume all
348   p = 1
349   strSQL = strSQL & " AND (Materials.[Magnet Application] LIKE '*D*' OR Materials.[Magnet
Application] LIKE '*P*' OR Materials.[Magnet Application] LIKE '*S*'"
350   strSQLrs = strSQLrs & " AND ([Magnet Application] LIKE '%D%' OR [Magnet Application]
LIKE
'%"S%"' OR [Magnet Application] LIKE '%S%"'
351 ElseIf CheckMAD.Value <> 0 Then
352   p = 1
353   strSQL = strSQL & " AND (Materials.[Magnet Application] LIKE '*D*'"
354   strSQLrs = strSQLrs & " AND ([Magnet Application] LIKE '%D%"'
355   If CheckMAP.Value <> 0 Then
356     strSQL = strSQL & " OR Materials.[Magnet Application] LIKE '*P*'"
357     strSQLrs = strSQLrs & " OR [Magnet Application] LIKE '%P%"'
358   End If
359   If CheckMAS.Value <> 0 Then
360     strSQL = strSQL & " OR Materials.[Magnet Application] LIKE '*S*'"
361     strSQLrs = strSQLrs & " OR [Magnet Application] LIKE '%S%"'
362   End If
363 ElseIf CheckMAP.Value <> 0 Then
364   p = 1
365   strSQL = strSQL & " AND (Materials.[Magnet Application] LIKE '*P*'"
366   strSQLrs = strSQLrs & " AND ([Magnet Application] LIKE '%P%"'
367   If CheckMAS.Value <> 0 Then
368     strSQL = strSQL & " OR Materials.[Magnet Application] LIKE '*S*'"
369     strSQLrs = strSQLrs & " OR [Magnet Application] LIKE '%S%"'
370   End If
371 ElseIf CheckMAS.Value <> 0 Then
372   p = 1
373   strSQL = strSQL & " AND (Materials.[Magnet Application] LIKE '*S*'"
374   strSQLrs = strSQLrs & " AND ([Magnet Application] LIKE '%S%"'
375 Else
376   MsgBox "Error with magnet application, please try your search again.", vbCritical, "Error"
377   E = 1
378 Exit Sub
379 End If
380 'Add ")"
381 If p = 1 Then
382   strSQL = strSQL & ")"
383   strSQLrs = strSQLrs & ")"
384 End If
385
386 End Sub
387
388 Sub TestforResults(x)
389
390 E = 0
391
392 Set con = Application.CurrentProject.Connection
393 Set rs = CreateObject("ADODB.Recordset")
394 rs.Open strSQLrs, con, 1 ' 1 = adOpenKeyset
```

```
395 'Check for results
396 If (rs.EOF) Then
397   If x = 1 Then
398     MsgBox "No Results Found", vbInformation, "No Results"
399   E = 1
400   Exit Sub
401 ElseIf x = 2 Then
402   MsgBox "Material Not Found", vbInformation, "Not Found"
403   E = 1
404   Exit Sub
405 Else
406   MsgBox "Your search came up empty.", vbInformation, "We got nothing"
407   E = 1
408   Exit Sub
409 End If
410 End If
411 rs.Close
412 Set rs = Nothing
413 Set con = Nothing
414
415 End Sub
416
417 Private Function ClearProperties()
418
419 Dim x As Integer 'For use in For Next Loops
420
421 For x = 1 To conTexts
422   Me("Text" & x).Value = ""
423 Next
424
425 End Function
```

#### User Permissions

	admin	
	Administrator	
	akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
Modify		Definition, Execute
	Han	
	Reader	
	User	
	Xin	

#### Group Permissions

	Admins	
Modify		Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
		Definition, Execute
	Backup Operators	
	Full Data Users	
	Full Permissions	
	New Data Users	
	Project Designers	

Read-Only Users	Execute
Update Data Users	
Users	Read Permissions

**Properties**

AllowAdditions:	False	AllowDatasheetView:	True
AllowDeletions:	False	AllowDesignChanges:	True
AllowEditing:	True	AllowEdits:	False
AllowFilters:	False	AllowFormView:	True
AllowPivotChartView:	True	AllowPivotTableView:	True
AllowUpdating:	No	AutoCenter:	True
AutoResize:	True	Bookmark:	Long binary data
BorderStyle:	Sizable	Caption:	Welcome mainpage
CloseButton:	True	Container:	Forms
ControlBox:	True	Count:	19
CurrentRecord:	1	CurrentSectionLeft:	0
CurrentSectionTop:	0	CurrentView:	1
Cycle:	All Records	DataEntry:	False
DatasheetBackColor:	16777215	DatasheetBorderLineStyle:	1
DatasheetCellsEffect:	Flat	DatasheetColumnHeaderUnd	1
DatasheetFontHeight:	10	DatasheetFontItalic:	False
DatasheetFontName:	Arial	DatasheetFontUnderline:	False
DatasheetFontWeight:	Normal	DatasheetForeColor:	0
DatasheetGridlinesBehavior:	12632256	DatasheetGridlinesColor:	
DateCreated:	7/15/2005 2:49:40 PM	DefaultEditing:	3
DefaultView:	Single Form	Dirty:	False
DividingLines:	True	FastLaserPrinting:	True
FetchDefaults:	True	Filter:	[ItemNumber] = 0 AND [Argument] = 'Default'
FilterOn:	True	FrozenColumns:	1
GridX:	24	GridY:	24
GUID:	{guid {260012B8-6226-44D0-8BAA-98923CC96C66}}	HasModule:	True
HelpContextId:	0	HorizontalDatasheetGridlineSt	1
Hwnd:	131790	InsideHeight:	4305
InsideWidth:	5760	KeyPreview:	False
LastUpdated:	7/15/2005 2:49:40 PM	LayoutForPrint:	False
LogicalPageWidth:	9360	MaxButton:	True
MinButton:	True	MinMaxButtons:	Both Enabled
Modal:	False	Moveable:	True
NameMap:	Long binary data	NavigationButtons:	False
OnCurrent:	[Event Procedure]	OnOpen:	[Event Procedure]
OrderByOn:	False	Orientation:	Left-to-Right
Owner:	akorinda	Painting:	True
PaletteSource:	(Default)	Picture:	(none)
PictureAlignment:	Center	PictureSizeMode:	Clip
PictureTiling:	False	PictureType:	0
PopUp:	False	PrtDevMode:	Long binary data
PrtDevNames:	Long binary data	PrtMip:	Long binary data
RecordLocks:	No Locks	RecordSelectors:	False
RecordsetType:	Dynaset	RecordSource:	Switchboard Items
RowHeight:	Default	ScrollBars:	Neither
SelHeight:	0	SelLeft:	1
SelTop:	1	SelWidth:	0
ShortcutMenu:	False	ShowGrid:	True
SubdatasheetExpanded:	False	SubdatasheetHeight:	0
TimerInterval:	0	UserName:	akorinda

VerticalDatasheetGridlineStyle	1	ViewsAllowed:	Both
Visible:	True	WhatsThisButton:	False
Width:	5760	WindowHeight:	4875
WindowLeft:	9000	WindowTop:	3330
WindowWidth:	5940		

## Objects

### **Section: Detail**

BackColor:	16777164	CanGrow:	True
CanShrink:	True	DisplayWhen:	Always
EventProcPrefix:	Detail	ForceNewPage:	None
HasContinued:	False	Height:	4320
KeepTogether:	False	Name:	Detail
NewRowOrCol:	None	SpecialEffect:	Flat
Visible:	True	WillContinue:	False

### **Line: HorizontalDividingLine**

BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ControlType:	102	DisplayWhen:	Always
EventProcPrefix:	HorizontalDividingLine	Height:	0
Left:	60	LineSlant:	False
Name:	HorizontalDividingLine	OldBorderStyle:	1
Section:	0	SpecialEffect:	Raised
Top:	660	Visible:	True
Width:	4698		

### **Label: Label1**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	MS&T Materials Database
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	Label1	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	18	FontUnderline:	False
FontWeight:	Normal	ForeColor:	16711680
Height:	480	HelpContextId:	0
Left:	120	LeftMargin:	0
LineSpacing:	0	Name:	Label1
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Etched
TextAlign:	General	TextFontCharSet:	0
Top:	120	TopMargin:	0
Vertical:	False	Visible:	True
Width:	3990		

### **Label: Label2**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	MS&T Materials Database
ControlType:	100	DisplayWhen:	Always

EventProcPrefix:	Label2	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	18	FontUnderline:	False
FontWeight:	Normal	ForeColor:	8421504
Height:	450	HelpContextId:	0
Left:	162	LeftMargin:	0
LineSpacing:	0	Name:	Label2
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	165	TopMargin:	0
Vertical:	False	Visible:	True
Width:	4410		

**Command Button: Option1&1**

AutoRepeat:	False	Cancel:	False
ControlType:	104	Default:	False
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Option1_1	FontBold:	No
FontItalic:	False	FontName:	System
FontSize:	10	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	259	HelpContextId:	0
Left:	180	Name:	Option1&1
OnClick:	=HandleButtonClick(1)	Picture:	(none)
PictureType:	0	ReadingOrder:	Context
Section:	0	TabIndex:	0
TabStop:	True	TextFontCharSet:	0
Top:	780	Transparent:	False
Visible:	True	Width:	259

**Command Button: Option1&2**

AutoRepeat:	False	Cancel:	False
ControlType:	104	Default:	False
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Option1_2	FontBold:	No
FontItalic:	False	FontName:	System
FontSize:	10	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	259	HelpContextId:	0
Left:	180	Name:	Option1&2
OnClick:	=HandleButtonClick(2)	Picture:	(none)
PictureType:	0	ReadingOrder:	Context
Section:	0	TabIndex:	1
TabStop:	True	TextFontCharSet:	0
Top:	1140	Transparent:	False
Visible:	True	Width:	259

**Command Button: Option1&3**

AutoRepeat:	False	Cancel:	False
ControlType:	104	Default:	False
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Option1_3	FontBold:	No
FontItalic:	False	FontName:	System
FontSize:	10	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0

Height:	259	HelpContextId:	0
Left:	180	Name:	Option1&3
OnClick:	=HandleButtonClick(3)	Picture:	(none)
PictureType:	0	ReadingOrder:	Context
Section:	0	TabIndex:	2
TabStop:	True	TextFontCharSet:	0
Top:	1500	Transparent:	False
Visible:	True	Width:	259

**Command Button: Option1&4**

AutoRepeat:	False	Cancel:	False
ControlType:	104	Default:	False
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Option1_4	FontBold:	No
FontItalic:	False	FontName:	System
FontSize:	10	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	259	HelpContextId:	0
Left:	180	Name:	Option1&4
OnClick:	=HandleButtonClick(4)	Picture:	(none)
PictureType:	0	ReadingOrder:	Context
Section:	0	TabIndex:	3
TabStop:	True	TextFontCharSet:	0
Top:	1860	Transparent:	False
Visible:	False	Width:	259

**Command Button: Option1&5**

AutoRepeat:	False	Cancel:	False
ControlType:	104	Default:	False
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Option1_5	FontBold:	No
FontItalic:	False	FontName:	System
FontSize:	10	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	259	HelpContextId:	0
Left:	180	Name:	Option1&5
OnClick:	=HandleButtonClick(5)	Picture:	(none)
PictureType:	0	ReadingOrder:	Context
Section:	0	TabIndex:	4
TabStop:	True	TextFontCharSet:	0
Top:	2220	Transparent:	False
Visible:	False	Width:	259

**Command Button: Option1&6**

AutoRepeat:	False	Cancel:	False
ControlType:	104	Default:	False
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Option1_6	FontBold:	No
FontItalic:	False	FontName:	System
FontSize:	10	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	259	HelpContextId:	0
Left:	180	Name:	Option1&6
OnClick:	=HandleButtonClick(6)	Picture:	(none)
PictureType:	0	ReadingOrder:	Context
Section:	0	TabIndex:	5
TabStop:	True	TextFontCharSet:	0

Top:	2580	Transparent:	False
Visible:	False	Width:	259

**Command Button: Option1&7**

AutoRepeat:	False	Cancel:	False
ControlType:	104	Default:	False
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Option1_7	FontBold:	No
FontItalic:	False	FontName:	System
FontSize:	10	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	259	HelpContextId:	0
Left:	180	Name:	Option1&7
OnClick:	=HandleButtonClick(7)	Picture:	(none)
PictureType:	0	ReadingOrder:	Context
Section:	0	TabIndex:	6
TabStop:	True	TextFontCharSet:	0
Top:	2940	Transparent:	False
Visible:	False	Width:	259

**Command Button: Option1&8**

AutoRepeat:	False	Cancel:	False
ControlType:	104	Default:	False
DisplayWhen:	Always	Enabled:	True
EventProcPrefix:	Option1_8	FontBold:	No
FontItalic:	False	FontName:	System
FontSize:	10	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	259	HelpContextId:	0
Left:	180	Name:	Option1&8
OnClick:	=HandleButtonClick(8)	Picture:	(none)
PictureType:	0	ReadingOrder:	Context
Section:	0	TabIndex:	7
TabStop:	True	TextFontCharSet:	0
Top:	3360	Transparent:	False
Visible:	False	Width:	259

**Label: OptionLabel1&1**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Begin Search
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	OptionLabel1_1	FontBold:	No
FontItalic:	False	FontName:	@Arial Unicode MS
FontSize:	11	FontUnderline:	False
FontWeight:	Normal	ForeColor:	-2147483630
Height:	314	HelpContextId:	0
Left:	540	LeftMargin:	0
LineSpacing:	0	Name:	OptionLabel1&1
NumeralShapes:	System	OldBorderStyle:	0
OnClick:	=HandleButtonClick(1)	ReadingOrder:	Context
RightMargin:	0	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	780
TopMargin:	0	Vertical:	False
Visible:	True	Width:	3990

**Label: OptionLabel1&2**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Graphical Search
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	OptionLabel1_2	FontBold:	No
FontItalic:	False	FontName:	@Arial Unicode MS
FontSize:	11	FontUnderline:	False
FontWeight:	Normal	ForeColor:	-2147483630
Height:	314	HelpContextId:	0
Left:	540	LeftMargin:	0
LineSpacing:	0	Name:	OptionLabel1&2
NumericalShapes:	System	OldBorderStyle:	0
OnClick:	=HandleButtonClick(2)	ReadingOrder:	Context
RightMargin:	0	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	1140
TopMargin:	0	Vertical:	False
Visible:	True	Width:	3990

**Label: OptionLabel1&3**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Exit
ControlType:	100	DisplayWhen:	Always
EventProcPrefix:	OptionLabel1_3	FontBold:	No
FontItalic:	False	FontName:	@Arial Unicode MS
FontSize:	11	FontUnderline:	False
FontWeight:	Normal	ForeColor:	-2147483630
Height:	314	HelpContextId:	0
Left:	540	LeftMargin:	0
LineSpacing:	0	Name:	OptionLabel1&3
NumericalShapes:	System	OldBorderStyle:	0
OnClick:	=HandleButtonClick(3)	ReadingOrder:	Context
RightMargin:	0	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	1500
TopMargin:	0	Vertical:	False
Visible:	True	Width:	3990

**Label: OptionLabel1&4**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	ControlType:	100
DisplayWhen:	Always	EventProcPrefix:	OptionLabel1_4
FontBold:	No	FontItalic:	False
FontName:	@Arial Unicode MS	FontSize:	11
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	314
HelpContextId:	0	Left:	540
LeftMargin:	0	LineSpacing:	0
Name:	OptionLabel1&4	NumericalShapes:	System
OldBorderStyle:	0	OnClick:	=HandleButtonClick(4)

ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	1860	TopMargin:	0
Vertical:	False	Visible:	False
Width:	3990		

**Label: OptionLabel1&5**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	ControlType:	100
DisplayWhen:	Always	EventProcPrefix:	OptionLabel1_5
FontBold:	No	FontItalic:	False
FontName:	MS Sans Serif	FontSize:	11
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	314
HelpContextId:	0	Left:	540
LeftMargin:	0	LineSpacing:	0
Name:	OptionLabel1&5	NumeralShapes:	System
OldBorderStyle:	0	OnClick:	=HandleButtonClick(5)
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	2220	TopMargin:	0
Vertical:	False	Visible:	False
Width:	3990		

**Label: OptionLabel1&6**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	ControlType:	100
DisplayWhen:	Always	EventProcPrefix:	OptionLabel1_6
FontBold:	No	FontItalic:	False
FontName:	MS Sans Serif	FontSize:	11
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	314
HelpContextId:	0	Left:	540
LeftMargin:	0	LineSpacing:	0
Name:	OptionLabel1&6	NumeralShapes:	System
OldBorderStyle:	0	OnClick:	=HandleButtonClick(6)
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	2580	TopMargin:	0
Vertical:	False	Visible:	False
Width:	3990		

**Label: OptionLabel1&7**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	ControlType:	100
DisplayWhen:	Always	EventProcPrefix:	OptionLabel1_7
FontBold:	No	FontItalic:	False
FontName:	MS Sans Serif	FontSize:	11

FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	314
HelpContextId:	0	Left:	540
LeftMargin:	0	LineSpacing:	0
Name:	OptionLabel1&7	NumericalShapes:	System
OldBorderStyle:	0	OnClick:	=HandleButtonClick(7)
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	2940	TopMargin:	0
Vertical:	False	Visible:	False
Width:	3990		

**Label: OptionLabel1&8**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	ControlType:	100
DisplayWhen:	Always	EventProcPrefix:	OptionLabel1_8
FontBold:	No	FontItalic:	False
FontName:	MS Sans Serif	FontSize:	11
FontUnderline:	False	FontWeight:	Normal
ForeColor:	-2147483630	Height:	314
HelpContextId:	0	Left:	540
LeftMargin:	0	LineSpacing:	0
Name:	OptionLabel1&8	NumericalShapes:	System
OldBorderStyle:	0	OnClick:	=HandleButtonClick(8)
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	3360	TopMargin:	0
Vertical:	False	Visible:	False
Width:	3990		

**Code**

```

1 VERSION 1.0 CLASS
2 BEGIN
3 MultiUse = -1 'True
4 END
5 Attribute VB_Name = "Form_Switchboard"
6 Attribute VB_GlobalNameSpace = False
7 Attribute VB_Creatable = True
8 Attribute VB_PredeclaredId = True
9 Attribute VB_Exposed = False
10 Option Compare Database
11
12 Private Sub Form_Open(Cancel As Integer)
13 ' Minimize the database window and initialize the form.
14
15 ' Move to the switchboard page that is marked as the default.
16 Me.Filter = "[ItemNumber] = 0 AND [Argument] = 'Default' "
17 Me.FilterOn = True
18 End Sub

```

```
19
20 Private Sub Form_Current()
21 ' Update the caption and fill in the list of options.
22
23 Me.Caption = Nz(Me![ItemText], "")
24 FillOptions
25
26 End Sub
27
28 Private Sub FillOptions()
29
30 Dim x As Integer 'For use in For Next Loops
31
32 ' Fill in the options for this switchboard page.
33
34 ' The number of rows of buttons on the form.
35 Const conNumRows = 8
36 ' The number of columns of buttons on the form
37 Const conNumCols = 1
38
39 Dim con As Object
40 Dim rs As Object
41 Dim stSql As String
42 Dim intRows As Integer
43 Dim intCols As Integer
44
45 ' Set the focus to the first button on the form,
46 ' and then hide all of the buttons on the form
47 ' but the first. You can't hide the field with the focus.
48 ' Set all graphics to closed trees
49 For intCols = 1 To conNumCols
50     For intRows = 1 To conNumRows
51         If intRows <> 1 Or intCols <> 1 Then
52             Me("Option" & intCols & "&" & intRows).Visible = False
53             Me("OptionLabel" & intCols & "&" & intRows).Visible = False
54         Else
55             Me![Option1&1].SetFocus
56         End If
57     Next intRows
58 Next intCols
59
60 ' Open the table of Switchboard Items, and find
61 ' the first item for this Switchboard Page.
62 Set con = Application.CurrentProject.Connection
63 stSql = "SELECT * FROM [Switchboard Items]"
64 stSql = stSql & " WHERE [ItemNumber] > 0 AND [SwitchboardID] = " & Me![SwitchboardID]
65 stSql = stSql & " ORDER BY [ItemNumber];"
66 Set rs = CreateObject("ADODB.Recordset")
67 rs.Open stSql, con, 1 ' 1 = adOpenKeyset
68
69 ' If there are no options for this Switchboard Page,
70 ' display a message. Otherwise, fill the page with the items.
71 If (rs.EOF) Then
72     Me![OptionLabel1&1].Caption = "There are no items for this switchboard page"
```

```
73 Else
74   While (Not (rs.EOF))
75     Me("Option1&" & rs![ItemNumber]).Visible = True
76     Me("OptionLabel1&" & rs![ItemNumber]).Visible = True
77     Me("OptionLabel1&" & rs![ItemNumber]).Caption = rs![ItemText]
78     rs.MoveNext
79   Wend
80 End If
81
82 ' Close the recordset and the database.
83 rs.Close
84 Set rs = Nothing
85 Set con = Nothing
86
87 End Sub
88
89 Private Function HandleButtonClick(intBtn As Integer)
90 ' This function is called when a button is clicked.
91 ' intBtn indicates which button was clicked.
92
93 ' Constants for the commands that can be executed.
94 Const conCmdGotoSwitchboard = 1
95 Const conCmdOpenFormAdd = 2
96 Const conCmdOpenFormBrowse = 3
97 Const conCmdOpenReport = 4
98 Const conCmdCustomizeSwitchboard = 5
99 Const conCmdExitApplication = 6
100 Const conCmdRunMacro = 7
101 Const conCmdRunCode = 8
102 Const conCmdOpenPage = 9
103
104 ' An error that is special cased.
105 Const conErrDoCmdCancelled = 2501
106
107 Dim con As Object
108 Dim rs As Object
109 Dim stSql As String
110
111 On Error GoTo HandleButtonClick_Err
112
113 ' Find the item in the Switchboard Items table
114 ' that corresponds to the button that was clicked.
115 Set con = Application.CurrentProject.Connection
116 Set rs = CreateObject("ADODB.Recordset")
117 stSql = "SELECT * FROM [Switchboard Items] "
118 stSql = stSql & "WHERE [SwitchboardID] = " & Me![SwitchboardID] & " AND [ItemNumber] = "
&
119   intBtn
120   rs.Open stSql, con, 1  ' 1 = adOpenKeyset
121
122 ' If no item matches, report the error and exit the function.
123 If (rs.EOF) Then
124   MsgBox "There was an error reading the Switchboard Items table."
125   rs.Close
126   Set rs = Nothing
```

```
126      Set con = Nothing
127      Exit Function
128  End If
129
130  Select Case rs![Command]
131
132      ' Go to another switchboard.
133      Case conCmdGotoSwitchboard
134          Me.Filter = "[ItemNumber] = 0 AND [SwitchboardID] = " & rs![Argument]
135
136      ' Open a form in Add mode.
137      Case conCmdOpenFormAdd
138          DoCmd.OpenForm rs![Argument], , , acAdd
139
140      ' Open a form.
141      Case conCmdOpenFormBrowse
142          DoCmd.OpenForm rs![Argument]
143
144      ' Open a report.
145      Case conCmdOpenReport
146          DoCmd.OpenReport rs![Argument], acPreview
147
148      ' Customize the Switchboard.
149      Case conCmdCustomizeSwitchboard
150          ' Handle the case where the Switchboard Manager
151          ' is not installed (e.g. Minimal Install).
152          On Error Resume Next
153          Application.Run "ACWZMAIN.sbm_Entry"
154          If (Err <> 0) Then MsgBox "Command not available."
155          On Error GoTo 0
156          ' Update the form.
157          Me.Filter = "[ItemNumber] = 0 AND [Argument] = 'Default' "
158          Me.Caption = Nz(Me![ItemText], "")
159          FillOptions
160
161      ' Exit the application.
162      Case conCmdExitApplication
163          CloseCurrentDatabase
164
165      ' Run a macro.
166      Case conCmdRunMacro
167          DoCmd.RunMacro rs![Argument]
168
169      ' Run code.
170      Case conCmdRunCode
171          Application.Run rs![Argument]
172
173      ' Open a Data Access Page
174      Case conCmdOpenPage
175          DoCmd.OpenDataAccessPage rs![Argument]
176
177      ' Any other command is unrecognized.
178      Case Else
179          MsgBox "Unknown option."
```

```
180
181  End Select
182
183  ' Close the recordset and the database.
184  rs.Close
185
186 HandleButtonClick_Exit:
187 On Error Resume Next
188  Set rs = Nothing
189  Set con = Nothing
190  Exit Function
191
192 HandleButtonClick_Err:
193  ' If the action was cancelled by the user for
194  ' some reason, don't display an error message.
195  ' Instead, resume on the next line.
196  If (Err = conErrDoCmdCancelled) Then
197    Resume Next
198  Else
199    MsgBox "There was an error executing the command.", vbCritical
200    Resume HandleButtonClick_Exit
201 End If
202
203 End Function
204
```

#### User Permissions

	admin	
	Administrator	
	akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
Modify		Definition, Execute
	Han	
	Reader	
	User	
	Xin	

#### Group Permissions

	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition,
Modify		Definition, Execute
	Backup Operators	
	Full Data Users	
	Full Permissions	
	New Data Users	
	Project Designers	
	Read-Only Users	Execute
	Update Data Users	
	Users	Read Permissions

**Properties**

AutoCenter:	False	AutoResize:	True
BorderStyle:	Dashes	Caption:	Materials
CloseButton:	True	Container:	Reports
ControlBox:	True	Count:	59
DateCreated:	7/18/2005 1:59:03 PM	DateGrouping:	Use System Settings
FastLaserPrinting:	True	Filter:	((Materials.[Material Type] LIKE '*C*' OR Materials.[Material Type] LIKE '*I*' OR Materials.[Material Type] LIKE '*S*') AND (Materials.[Magnet Application] LIKE '*D*' OR Materials.[Magnet Application] LIKE '*P*' OR Materials.[Magnet Application] LIKE '*S*') AND (Materials.[UNS Number]='S30100'))
LIKE			
Materials.[Magnet			
FilterOn:	False	GridX:	24
GridY:	24	GrpKeepTogether:	Per Page
GUID:	{guid {50F0C5B6-2CFD-45BC- B400-4402B14F5B4F}}	HasModule:	False
HelpContextId:	0	Hwnd:	2032596
LastUpdated:	7/18/2005 1:59:03 PM	LayoutForPrint:	True
LogicalPageWidth:	9360	MaxButton:	True
MinButton:	True	MinMaxButtons:	Both Enabled
Modal:	False	Moveable:	True
NameMap:	Long binary data	OrderByOn:	False
Orientation:	Left-to-Right	Owner:	admin
PageFooter:	Default	PageHeader:	Default
Painting:	True	PaletteSource:	(Default)
Picture:	(none)	PictureAlignment:	Center
PicturePages:	All Pages	PictureSizeMode:	Clip
PictureTiling:	False	PictureType:	0
PopUp:	False	PrtDevMode:	Long binary data
PrtDevNames:	Long binary data	PrtMip:	Long binary data
RecordLocks:	No Locks	RecordSource:	SELECT Materials.* , [Shape and Size Ranges].[Test Sample Shape and Size Range], Properties.Temperature, Properties.[Electrical Properties.[Electrical Properties.[Thermal Conductivity], Properties.[Thermal Conductivity High], Properties.[Coefficient of Thermal Expansion], Properties.[Coefficient of Thermal Expansion High], Properties.[Young's Modulus], Properties.[Young's Modulus High], Properties.[Tensile Strength], Properties.[Tensile Strength High],
Resistivity],			
Resistivity			

Properties.[Yield

Strength], Properties.[Yield  
Strength High],  
Properties.Elongation,

```
Properties.[Elongation High], UserName: akorinda
Properties.[Area in Reduction],
Properties.[Area in Reduction
High], Properties.Density,
Properties.[Density High],
Properties.[Poisson's Ratio],
Properties.[Poisson's Ratio
High], Properties.[Specific
Heat], Properties.[Specific Heat
High], Properties.Refrences,
[Shape and Size Ranges].[SSR
ID] FROM (Materials LEFT JOIN
[Shape and Size Ranges] ON
Materials.[UNS
Number]=[Shape and Size
Ranges].[UNS Number]) LEFT
JOIN Properties ON [Shape and
Size Ranges].[SSR
ID]=Properties.[SSR ID];
```

Visible:	True	Width:	9360
WindowHeight:	12585	WindowLeft:	270
WindowTop:	210	WindowWidth:	10365

### Objects

#### **Group Level 0**

ControlSource:	UNS Number	GroupFooter:	False
GroupHeader:	True	GroupInterval:	1
GroupOn:	Each Value	KeepTogether:	Per Page
SortOrder:	False		

#### **Group Level 1**

ControlSource:	SSR ID	GroupFooter:	False
GroupHeader:	True	GroupInterval:	1
GroupOn:	Each Value	KeepTogether:	Per Page
SortOrder:	False		

#### **Group Level 2**

ControlSource:	Temperature	GroupFooter:	False
GroupHeader:	True	GroupInterval:	1
GroupOn:	Each Value	KeepTogether:	Per Page
SortOrder:	False		

#### **Section: Detail**

BackColor:	16777215	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	Detail	ForceNewPage:	None
HasContinued:	False	Height:	5580
InSelection:	False	KeepTogether:	True
Name:	Detail	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

#### **Section: GroupHeader0**

BackColor:	16777215	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	GroupHeader0	ForceNewPage:	None
HasContinued:	False	Height:	1485
InSelection:	False	KeepTogether:	True
Name:	GroupHeader0	NewRowOrCol:	None
RepeatSection:	False	SpecialEffect:	Flat
Visible:	True	WillContinue:	False

**Section: GroupHeader1**

BackColor:	16777215	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	GroupHeader1	ForceNewPage:	None
HasContinued:	False	Height:	1140
InSelection:	False	KeepTogether:	True
Name:	GroupHeader1	NewRowOrCol:	None
RepeatSection:	False	SpecialEffect:	Flat
Visible:	True	WillContinue:	False

**Section: GroupHeader2**

BackColor:	16777215	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	GroupHeader2	ForceNewPage:	None
HasContinued:	False	Height:	390
InSelection:	False	KeepTogether:	True
Name:	GroupHeader2	NewRowOrCol:	None
RepeatSection:	False	SpecialEffect:	Flat
Visible:	True	WillContinue:	False

**Section: PageFooterSection**

BackColor:	16777215	DisplayWhen:	Always
EventProcPrefix:	PageFooterSection	HasContinued:	False
Height:	510	InSelection:	False
Name:	PageFooterSection	SpecialEffect:	Flat
Visible:	True	WillContinue:	False

**Section: PageHeaderSection**

BackColor:	16777215	DisplayWhen:	Always
EventProcPrefix:	PageHeaderSection	HasContinued:	False
Height:	0	InSelection:	False
Name:	PageHeaderSection	SpecialEffect:	Flat
Visible:	True	WillContinue:	False

**Section: ReportFooter**

BackColor:	16777215	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	ReportFooter	ForceNewPage:	None
HasContinued:	False	Height:	0
InSelection:	False	KeepTogether:	True
Name:	ReportFooter	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

**Section: ReportHeader**

BackColor:	16777215	CanGrow:	False
CanShrink:	False	DisplayWhen:	Always
EventProcPrefix:	ReportHeader	ForceNewPage:	None

HasContinued:	False	Height:	1050
InSelection:	False	KeepTogether:	True
Name:	ReportHeader	NewRowOrCol:	None
SpecialEffect:	Flat	Visible:	True
WillContinue:	False		

**Text Box: Area in Reduction**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Area in Reduction
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Area_in_Reduction	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 960

LeftMargin:	0	LineSpacing:	0
Name:	Area in Reduction	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	2400
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

**Text Box: Area in Reduction High**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Area in Reduction High
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Area_in_Reduction_High	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 2040

LeftMargin:	0	LineSpacing:	0
Name:	Area in Reduction High	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	2400
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

**Label: Area in Reduction\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Area in Reduction
ControlType:	100	EventProcPrefix:	Area_in_Reduction_Label
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	600	LeftMargin:	0
LineSpacing:	0	Name:	Area in Reduction_Label
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Center
TextFontCharSet:	0	Top:	2040
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2820

**Rectangle: Box67**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	2 pt
ControlType:	101	EventProcPrefix:	Box67
Height:	360	Left:	0
Name:	Box67	OldBorderStyle:	1
Section:	9	SpecialEffect:	Flat
Top:	0	Visible:	True
Width:	4440		

**Text Box: Coefficient of Thermal Expansion**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Coefficient of Thermal Expansion
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Coefficient_of_Thermal_Expansion	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 6900
LeftMargin:	0	LineSpacing:	0
Name:	Coefficient of Thermal Expansion	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	600
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

**Text Box: Coefficient of Thermal Expansion High**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Coefficient of Thermal Expansion High
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Coefficient_of_Thermal_Expansion_High	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink:
KeyboardLanguage:		0	Left: 7980 False
LeftMargin:	0	LineSpacing:	0
Name:	Coefficient of Thermal Expansion High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	600
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

**Label: Coefficient of Thermal Expansion\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Coefficient of Thermal Expansion
ControlType:	100	EventProcPrefix:	
<b>Coefficient_of_Thermal_Expansion_Label</b>			
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	6480	LeftMargin:	0
LineSpacing:	0	Name:	Coefficient of Thermal Expansion_Label
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Center
TextFontCharSet:	0	Top:	240
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2820

**Text Box: Common Name**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Common Name
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Common_Name	FontBold:	Yes
FontItalic:	True	FontName:	Times New Roman

FontSize:	14	FontUnderline:	False	
FontWeight:	Bold	ForeColor:	0	
Height:	405	HideDuplicates:	False	
IMEHold:	False	IMEMode:	0	
IMESentenceMode:		3	IsHyperlink:	False
KeyboardLanguage:		0	Left:	2640
LeftMargin:	0	LineSpacing:	0	
Name:	Common Name	NumeralShapes:	System	
OldBorderStyle:	0	ReadingOrder:	Context	
RightMargin:	0	RunningSum:	No	
ScrollBarAlign:	System	Section:	5	
SpecialEffect:	Flat	TextAlign:	General	
TextFontCharSet:	0	Top:	60	
TopMargin:	0	Vertical:	False	
Visible:	True	Width:	6540	
<b>Label: Common Name_Label</b>				
BackColor:	16777215	BackStyle:	Transparent	
BorderColor:	0	BorderLineStyle:	Solid	
BorderStyle:	Transparent	BorderWidth:	Hairline	
BottomMargin:	0	Caption:	Common Name	
ControlType:	100	EventProcPrefix:	Common_Name_Label	
FontBold:	Yes	FontItalic:	True	
FontName:	Times New Roman	FontSize:	14	
FontUnderline:	False	FontWeight:	Bold	
ForeColor:	0	Height:	405	
Left:	60	LeftMargin:	0	
LineSpacing:	0	Name:	Common Name_Label	
NumeralShapes:	System	OldBorderStyle:	0	
ReadingOrder:	Context	RightMargin:	0	
Section:	5	SpecialEffect:	Flat	
TextAlign:	Left	TextFontCharSet:	0	
Top:	60	TopMargin:	0	
Vertical:	False	Visible:	True	
Width:	2460			
<b>Text Box: Composition</b>				
BackColor:	16777215	BackStyle:	Transparent	
BorderColor:	0	BorderLineStyle:	Solid	
BorderStyle:	Transparent	BorderWidth:	Hairline	
BottomMargin:	0	CanGrow:	False	
CanShrink:	False	ControlSource:	Composition	
ControlType:	109	DecimalPlaces:	Auto	
EventProcPrefix:	Composition	FontBold:	Yes	
FontItalic:	True	FontName:	Times New Roman	
FontSize:	14	FontUnderline:	False	
FontWeight:	Bold	ForeColor:	0	
Height:	405	HideDuplicates:	False	
IMEHold:	False	IMEMode:	0	
IMESentenceMode:		3	IsHyperlink:	False
KeyboardLanguage:		0	Left:	2640
LeftMargin:	0	LineSpacing:	0	
Name:	Composition	NumeralShapes:	System	
OldBorderStyle:	0	ReadingOrder:	Context	
RightMargin:	0	RunningSum:	No	

ScrollBarAlign:	System	Section:	5
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	1020
TopMargin:	0	Vertical:	False
Visible:	True	Width:	6540

**Label: Composition\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Composition
ControlType:	100	EventProcPrefix:	Composition_Label
FontBold:	Yes	FontItalic:	True
FontName:	Times New Roman	FontSize:	14
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	405
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Composition_Label
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	5	SpecialEffect:	Flat
TextAlign:	Left	TextFontCharSet:	0
Top:	1020	TopMargin:	0
Vertical:	False	Visible:	True
Width:	2460		

**Text Box: Density**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Density
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Density	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 3900
LeftMargin:	0	LineSpacing:	0
Name:	Density	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	2400
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

**Text Box: Density High**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False

CanShrink:	False	ControlSource:	Density High
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Density_High	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 4980
LeftMargin:	0	LineSpacing:	0
Name:	Density High	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	2400
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

**Label: Density\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Density
ControlType:	100	EventProcPrefix:	Density_Label
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	3540	LeftMargin:	0
LineSpacing:	0	Name:	Density_Label
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Center
TextFontCharSet:	0	Top:	2040
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2820

**Text Box: Electrical Resistivity**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	No
CanShrink:	False	ControlSource:	Electrical Resistivity
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Electrical_Resistivity	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 960

LeftMargin:	0	LineSpacing:	0
Name:	Electrical Resistivity	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	600
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

#### **Text Box: Electrical Resistivity High**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Electrical Resistivity High
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Electrical_Resistivity_High	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:	3	IsHyperlink:	False
KeyboardLanguage:	0	Left:	2040

LeftMargin:	0	LineSpacing:	0
Name:	Electrical Resistivity High	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	600
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

#### **Label: Electrical Resistivity\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Electrical Resistivity
ControlType:	100	EventProcPrefix:	Electrical_Resistivity_Label
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	600	LeftMargin:	0
LineSpacing:	0	Name:	Electrical Resistivity_Label
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Center
TextFontCharSet:	0	Top:	240
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2820

#### **Text Box: Elongation**

BackColor:	16777215	BackStyle:	Transparent	
BorderColor:	0	BorderLineStyle:	Solid	
BorderStyle:	Transparent	BorderWidth:	Hairline	
BottomMargin:	0	CanGrow:	False	
CanShrink:	False	ControlSource:	Elongation	
ControlType:	109	DecimalPlaces:	Auto	
EventProcPrefix:	Elongation	FontBold:	No	
FontItalic:	False	FontName:	Times New Roman	
FontSize:	8	FontUnderline:	False	
FontWeight:	Normal	ForeColor:	0	
Height:	270	HideDuplicates:	False	
IMEHold:	False	IMEMode:	0	
IMESentenceMode:		3	IsHyperlink:	False
KeyboardLanguage:		0	Left:	960
LeftMargin:	0	LineSpacing:	0	
Name:	Elongation	NumeralShapes:	System	
OldBorderStyle:	0	ReadingOrder:	Context	
RightMargin:	0	RunningSum:	No	
ScrollBarAlign:	System	Section:	0	
SpecialEffect:	Flat	TextAlign:	General	
TextFontCharSet:	0	Top:	3300	
TopMargin:	0	Vertical:	False	
Visible:	True	Width:	1020	

#### **Text Box: Elongation High**

BackColor:	16777215	BackStyle:	Transparent	
BorderColor:	0	BorderLineStyle:	Solid	
BorderStyle:	Transparent	BorderWidth:	Hairline	
BottomMargin:	0	CanGrow:	False	
CanShrink:	False	ControlSource:	Elongation High	
ControlType:	109	DecimalPlaces:	Auto	
EventProcPrefix:	Elongation_High	FontBold:	No	
FontItalic:	False	FontName:	Times New Roman	
FontSize:	8	FontUnderline:	False	
FontWeight:	Normal	ForeColor:	0	
Height:	270	HideDuplicates:	False	
IMEHold:	False	IMEMode:	0	
IMESentenceMode:		3	IsHyperlink:	False
KeyboardLanguage:		0	Left:	2040
LeftMargin:	0	LineSpacing:	0	
Name:	Elongation High	NumeralShapes:	System	
OldBorderStyle:	0	ReadingOrder:	Context	
RightMargin:	0	RunningSum:	No	
ScrollBarAlign:	System	Section:	0	
SpecialEffect:	Flat	TextAlign:	General	
TextFontCharSet:	0	Top:	3300	
TopMargin:	0	Vertical:	False	
Visible:	True	Width:	1020	

#### **Label: Elongation\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Elongation
ControlType:	100	EventProcPrefix:	Elongation_Label

FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	600	LeftMargin:	0
LineSpacing:	0	Name:	Elongation_Label
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Center
TextFontCharSet:	0	Top:	2940
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2820

**Label: Label56**

BackColor:	16777215	BackStyle:	Normal
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Materials
ControlType:	100	EventProcPrefix:	Label56
FontBold:	No	FontItalic:	False
FontName:	Times New Roman	FontSize:	24
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	600
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Label56
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	1	SpecialEffect:	Flat
TextAlign:	Left	TextFontCharSet:	0
Top:	60	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1860		

**Line: Line59**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ControlType:	102	EventProcPrefix:	Line59
Height:	0	Left:	0
LineSlant:	False	Name:	Line59
OldBorderStyle:	1	Section:	1
SpecialEffect:	Flat	Top:	60
Visible:	True	Width:	9360

**Line: Line60**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ControlType:	102	EventProcPrefix:	Line60
Height:	0	Left:	0
LineSlant:	False	Name:	Line60
OldBorderStyle:	1	Section:	1
SpecialEffect:	Flat	Top:	90
Visible:	True	Width:	9360

**Line: Line61**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline

ControlType:	102	EventProcPrefix:	Line61
Height:	0	Left:	0
LineSlant:	False	Name:	Line61
OldBorderStyle:	1	Section:	1
SpecialEffect:	Flat	Top:	1020
Visible:	True	Width:	9360

**Line: Line62**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ControlType:	102	EventProcPrefix:	Line62
Height:	0	Left:	0
LineSlant:	False	Name:	Line62
OldBorderStyle:	1	Section:	1
SpecialEffect:	Flat	Top:	1050
Visible:	True	Width:	9360

**Line: Line63**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	1 pt
ControlType:	102	EventProcPrefix:	Line63
Height:	0	Left:	600
LineSlant:	False	Name:	Line63
OldBorderStyle:	1	Section:	0
SpecialEffect:	Flat	Tag:	DetachedLabel
Top:	30	Visible:	True
Width:	8700		

**Line: Line64**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	1 pt
ControlType:	102	EventProcPrefix:	Line64
Height:	0	Left:	600
LineSlant:	False	Name:	Line64
OldBorderStyle:	1	Section:	0
SpecialEffect:	Flat	Tag:	DetachedLabel
Top:	0	Visible:	True
Width:	8700		

**Line: Line65**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	1 pt
ControlType:	102	EventProcPrefix:	Line65
Height:	0	Left:	600
LineSlant:	False	Name:	Line65
OldBorderStyle:	1	Section:	0
SpecialEffect:	Flat	Tag:	DetachedLabel
Top:	3840	Visible:	True
Width:	8700		

**Line: Line66**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	1 pt
ControlType:	102	EventProcPrefix:	Line66
Height:	0	Left:	600
LineSlant:	False	Name:	Line66
OldBorderStyle:	1	Section:	0

SpecialEffect:	Flat	Tag:	DetachedLabel
Top:	3870	Visible:	True
Width:	8700		

**Line: Line68**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ControlType:	102	EventProcPrefix:	Line68
Height:	0	Left:	0
LineSlant:	False	Name:	Line68
OldBorderStyle:	1	Section:	4
SpecialEffect:	Flat	Top:	60
Visible:	True	Width:	9360

**Line: Line69**

BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Solid	BorderWidth:	Hairline
ControlType:	102	EventProcPrefix:	Line69
Height:	0	Left:	0
LineSlant:	False	Name:	Line69
OldBorderStyle:	1	Section:	4
SpecialEffect:	Flat	Top:	0
Visible:	True	Width:	9360

**Text Box: Poisson's Ratio**

BackColor:	16777215	BackStyle:	Transparent	
BorderColor:	0	BorderLineStyle:	Solid	
BorderStyle:	Transparent	BorderWidth:	Hairline	
BottomMargin:	0	CanGrow:	False	
CanShrink:	False	ControlSource:	Poisson's Ratio	
ControlType:	109	DecimalPlaces:	Auto	
EventProcPrefix:	Poisson_s_Ratio	FontBold:	No	
FontItalic:	False	FontName:	Times New Roman	
FontSize:	8	FontUnderline:	False	
FontWeight:	Normal	ForeColor:	0	
Height:	270	HideDuplicates:	False	
IMEHold:	False	IMEMode:	0	
IMESentenceMode:		3	IsHyperlink:	False
KeyboardLanguage:		0	Left:	6900

LeftMargin:	0	LineSpacing:	0
Name:	Poisson's Ratio	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	2400
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

**Text Box: Poisson's Ratio High**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Poisson's Ratio High
ControlType:	109	DecimalPlaces:	Auto

EventProcPrefix:	Poisson_s_Ratio_High	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 7980
LeftMargin:	0	LineSpacing:	0
Name:	Poisson's Ratio High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	2400
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020
 <b>Label: Poisson's Ratio_Label</b>			
BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Poisson's Ratio
ControlType:	100	EventProcPrefix:	Poisson_s_Ratio_Label
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	6480	LeftMargin:	0
LineSpacing:	0	Name:	Poisson's Ratio_Label
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Center
TextFontCharSet:	0	Top:	2040
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2820
 <b>Text Box: Refrences</b>			
BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Refrences
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Refrences	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	1260	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 660
LeftMargin:	0	LineSpacing:	0
Name:	Refrences	NumeralShapes:	System

OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	4320
TopMargin:	0	Vertical:	False
Visible:	True	Width:	8460

**Label: Refrences\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Refrences
ControlType:	100	EventProcPrefix:	Refrences_Label
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	300	LeftMargin:	0
LineSpacing:	0	Name:	Refrences_Label
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Left
TextFontCharSet:	0	Top:	3960
TopMargin:	0	Vertical:	False
Visible:	True	Width:	3660

**Text Box: Specific Heat**

BackColor:	16777215	BackStyle:	Transparent	
BorderColor:	0	BorderStyle:	Solid	
BorderStyle:	Transparent	BorderWidth:	Hairline	
BottomMargin:	0	CanGrow:	False	
CanShrink:	False	ControlSource:	Specific Heat	
ControlType:	109	DecimalPlaces:	Auto	
EventProcPrefix:	Specific_Heat	FontBold:	No	
FontItalic:	False	FontName:	Times New Roman	
FontSize:	8	FontUnderline:	False	
FontWeight:	Normal	ForeColor:	0	
Height:	270	HideDuplicates:	False	
IMEHold:	False	IMEMode:	0	
IMESentenceMode:		3	IsHyperlink:	False
KeyboardLanguage:		0	Left:	3900

LeftMargin:	0	LineSpacing:	0
Name:	Specific Heat	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	3300
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

**Text Box: Specific Heat High**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid

BorderStyle:	Transparent	BorderWidth:	Hairline	
BottomMargin:	0	CanGrow:	False	
CanShrink:	False	ControlSource:	Specific Heat High	
ControlType:	109	DecimalPlaces:	Auto	
EventProcPrefix:	Specific_Heat_High	FontBold:	No	
FontItalic:	False	FontName:	Times New Roman	
FontSize:	8	FontUnderline:	False	
FontWeight:	Normal	ForeColor:	0	
Height:	270	HideDuplicates:	False	
IMEHold:	False	IMEMode:	0	
IMESentenceMode:		3	IsHyperlink:	False
KeyboardLanguage:		0	Left:	4980

LeftMargin:	0	LineSpacing:	0
Name:	Specific Heat High	NumericalShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	3300
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

#### **Label: Specific Heat\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Specific Heat
ControlType:	100	EventProcPrefix:	Specific_Heat_Label
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	3540	LeftMargin:	0
LineSpacing:	0	Name:	Specific Heat_Label
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Center
TextFontCharSet:	0	Top:	2940
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2820

#### **Text Box: Temperature**

BackColor:	16777215	BackStyle:	Transparent	
BorderColor:	0	BorderLineStyle:	Solid	
BorderStyle:	Transparent	BorderWidth:	Hairline	
BottomMargin:	0	CanGrow:	False	
CanShrink:	False	ControlSource:	Temperature	
ControlType:	109	DecimalPlaces:	0	
EventProcPrefix:	Temperature	FontBold:	No	
FontItalic:	False	FontName:	Times New Roman	
FontSize:	10	FontUnderline:	False	
FontWeight:	Normal	ForeColor:	0	
Height:	300	HideDuplicates:	False	
IMEHold:	False	IMEMode:	0	
IMESentenceMode:		3	IsHyperlink:	False

KeyboardLanguage: 0 Left: 2040

LeftMargin:	0	LineSpacing:	0
Name:	Temperature	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	9
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	60
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2310

**Label: Temperature\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Temperature
ControlType:	100	EventProcPrefix:	Temperature_Label
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	300
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Temperature_Label
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	9	SpecialEffect:	Flat
TextAlign:	Left	TextFontCharSet:	0
Top:	60	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1860		

**Text Box: Tensile Strength**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Tensile Strength
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Tensile_Strength	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3 IsHyperlink:	False
KeyboardLanguage:		0 Left:	3900
LeftMargin:	0	LineSpacing:	0
Name:	Tensile Strength	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	1500
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

**Text Box: Tensile Strength High**

BackColor:	16777215	BackStyle:	Transparent	
BorderColor:	0	BorderLineStyle:	Solid	
BorderStyle:	Transparent	BorderWidth:	Hairline	
BottomMargin:	0	CanGrow:	False	
CanShrink:	False	ControlSource:	Tensile Strength High	
ControlType:	109	DecimalPlaces:	Auto	
EventProcPrefix:	Tensile_Strength_High	FontBold:	No	
FontItalic:	False	FontName:	Times New Roman	
FontSize:	8	FontUnderline:	False	
FontWeight:	Normal	ForeColor:	0	
Height:	270	HideDuplicates:	False	
IMEHold:	False	IMEMode:	0	
IMESentenceMode:		3	IsHyperlink:	False
KeyboardLanguage:		0	Left:	4980
LeftMargin:	0	LineSpacing:	0	
Name:	Tensile Strength High	NumeralShapes:	System	
OldBorderStyle:	0	ReadingOrder:	Context	
RightMargin:	0	RunningSum:	No	
ScrollBarAlign:	System	Section:	0	
SpecialEffect:	Flat	TextAlign:	General	
TextFont CharSet:	0	Top:	1500	
TopMargin:	0	Vertical:	False	
Visible:	True	Width:	1020	

**Label: Tensile Strength\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Tensile Strength
ControlType:	100	EventProcPrefix:	Tensile_Strength_Label
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	3540	LeftMargin:	0
LineSpacing:	0	Name:	Tensile Strength_Label
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Center
TextFont CharSet:	0	Top:	1140
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2820

**Text Box: Test Sample Shape and Size Range**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Test Sample Shape and Size Range
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Test_Sample_Shape_and_Size_Range	FontBold:	No
FontItalic:	True	FontName:	Times New Roman
FontSize:	14	FontUnderline:	False

FontWeight:	Normal	ForeColor:	0
Height:	1080	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:	3	IsHyperlink:	False
KeyboardLanguage:	0	Left:	2640
LeftMargin:	0	LineSpacing:	0
Name:	Test Sample Shape and Size Range	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	7
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	60
TopMargin:	0	Vertical:	False
Visible:	True	Width:	6540

#### **Label: Test Sample Shape and Size Range\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Test Sample Shape and Size Range
ControlType:	100	EventProcPrefix:	Test_Sample_Shape_and_Size_Range_Label
FontBold:	No	FontItalic:	True
FontName:	Times New Roman	FontSize:	14
FontUnderline:	False	FontWeight:	Normal
ForeColor:	0	Height:	1080
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Test Sample Shape and Size Range_Label
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	7	SpecialEffect:	Flat
TextAlign:	Left	TextFontCharSet:	0
Top:	60	TopMargin:	0
Vertical:	False	Visible:	True
Width:	2460		

#### **Text Box: Text57**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	=Now()
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Text57	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Format:	Long Date	Height:	270
HideDuplicates:	False	IMEHold:	False
IMEMode:	0	IMESentenceMode:	3
IsHyperlink:	False	KeyboardLanguage:	0
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	Text57
NumeralShapes:	System	OldBorderStyle:	0

ReadingOrder:	Context	RightMargin:	0
RunningSum:	No	ScrollBarAlign:	System
Section:	4	SpecialEffect:	Flat
TextAlign:	Left	TextFontCharSet:	0
Top:	240	TopMargin:	0
Vertical:	False	Visible:	True
Width:	2160		

**Text Box: Text58**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	= "Page " & [Page] & " of " & [Pages]
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Text58	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 5520
LeftMargin:	0	LineSpacing:	0
Name:	Text58	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	4
SpecialEffect:	Flat	TextAlign:	Right
TextFontCharSet:	0	Top:	240
TopMargin:	0	Vertical:	False
Visible:	True	Width:	3840

**Text Box: Thermal Conductivity**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Thermal Conductivity
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Thermal_Conductivity	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 3900
LeftMargin:	0	LineSpacing:	0
Name:	Thermal Conductivity	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	600

TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

#### **Text Box: Thermal Conductivity High**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Thermal Conductivity High
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Thermal_Conductivity_High	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 4980
LeftMargin:	0	LineSpacing:	0
Name:	Thermal Conductivity High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFont CharSet:	0	Top:	600
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

#### **Label: Thermal Conductivity\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Thermal Conductivity
ControlType:	100	EventProcPrefix:	Thermal_Conductivity_Label
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	3540	LeftMargin:	0
LineSpacing:	0	Name:	Thermal Conductivity_Label
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Center
TextFont CharSet:	0	Top:	240
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2820

#### **Text Box: UNS Number**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	UNS Number
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	UNS_Number	FontBold:	Yes

FontItalic:	True	FontName:	Times New Roman
FontSize:	14	FontUnderline:	False
FontWeight:	Bold	ForeColor:	0
Height:	405	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	InputMask: L00000
IsHyperlink:	False	KeyboardLanguage:	0
Left:	2640	LeftMargin:	0
LineSpacing:	0	Name:	UNS Number
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
RunningSum:	No	ScrollBarAlign:	System
Section:	5	SpecialEffect:	Flat
TextAlign:	General	TextFontCharSet:	0
Top:	540	TopMargin:	0
Vertical:	False	Visible:	True
Width:	1155		

#### **Label: UNS Number\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	UNS Number
ControlType:	100	EventProcPrefix:	UNS_Number_Label
FontBold:	Yes	FontItalic:	True
FontName:	Times New Roman	FontSize:	14
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	405
Left:	60	LeftMargin:	0
LineSpacing:	0	Name:	UNS Number_Label
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	5	SpecialEffect:	Flat
TextAlign:	Left	TextFontCharSet:	0
Top:	540	TopMargin:	0
Vertical:	False	Visible:	True
Width:	2460		

#### **Text Box: Yield Strength**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Yield Strength
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Yield_Strength	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 6900
LeftMargin:	0	LineSpacing:	0
Name:	Yield Strength	NumericalShapes:	System

OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	1500
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

**Text Box: Yield Strength High**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	CanGrow:	False
CanShrink:	False	ControlSource:	Yield Strength High
ControlType:	109	DecimalPlaces:	Auto
EventProcPrefix:	Yield_Strength_High	FontBold:	No
FontItalic:	False	FontName:	Times New Roman
FontSize:	8	FontUnderline:	False
FontWeight:	Normal	ForeColor:	0
Height:	270	HideDuplicates:	False
IMEHold:	False	IMEMode:	0
IMESentenceMode:		3	IsHyperlink: False
KeyboardLanguage:		0	Left: 7980
LeftMargin:	0	LineSpacing:	0
Name:	Yield Strength High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	1500
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

**Label: Yield Strength\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Yield Strength
ControlType:	100	EventProcPrefix:	Yield_Strength_Label
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10
FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	6480	LeftMargin:	0
LineSpacing:	0	Name:	Yield Strength_Label
NumeralShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Center
TextFontCharSet:	0	Top:	1140
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2820

**Text Box: Young's Modulus**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderStyle:	Solid

BorderStyle:	Transparent	BorderWidth:	Hairline	
BottomMargin:	0	CanGrow:	False	
CanShrink:	False	ControlSource:	Young's Modulus	
ControlType:	109	DecimalPlaces:	Auto	
EventProcPrefix:	Young_s_Modulus	FontBold:	No	
FontItalic:	False	FontName:	Times New Roman	
FontSize:	8	FontUnderline:	False	
FontWeight:	Normal	ForeColor:	0	
Height:	270	HideDuplicates:	False	
IMEHold:	False	IMEMode:	0	
IMESentenceMode:		3	IsHyperlink:	False
KeyboardLanguage:		0	Left:	960

LeftMargin:	0	LineSpacing:	0
Name:	Young's Modulus	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	1500
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

#### **Text Box: Young's Modulus High**

BackColor:	16777215	BackStyle:	Transparent	
BorderColor:	0	BorderLineStyle:	Solid	
BorderStyle:	Transparent	BorderWidth:	Hairline	
BottomMargin:	0	CanGrow:	False	
CanShrink:	False	ControlSource:	Young's Modulus High	
ControlType:	109	DecimalPlaces:	Auto	
EventProcPrefix:	Young_s_Modulus_High	FontBold:	No	
FontItalic:	False	FontName:	Times New Roman	
FontSize:	8	FontUnderline:	False	
FontWeight:	Normal	ForeColor:	0	
Height:	270	HideDuplicates:	False	
IMEHold:	False	IMEMode:	0	
IMESentenceMode:		3	IsHyperlink:	False
KeyboardLanguage:		0	Left:	2040

LeftMargin:	0	LineSpacing:	0
Name:	Young's Modulus High	NumeralShapes:	System
OldBorderStyle:	0	ReadingOrder:	Context
RightMargin:	0	RunningSum:	No
ScrollBarAlign:	System	Section:	0
SpecialEffect:	Flat	TextAlign:	General
TextFontCharSet:	0	Top:	1500
TopMargin:	0	Vertical:	False
Visible:	True	Width:	1020

#### **Label: Young's Modulus\_Label**

BackColor:	16777215	BackStyle:	Transparent
BorderColor:	0	BorderLineStyle:	Solid
BorderStyle:	Transparent	BorderWidth:	Hairline
BottomMargin:	0	Caption:	Young's Modulus
ControlType:	100	EventProcPrefix:	Young_s_Modulus_Label
FontBold:	Yes	FontItalic:	False
FontName:	Times New Roman	FontSize:	10

FontUnderline:	False	FontWeight:	Bold
ForeColor:	0	Height:	285
Left:	600	LeftMargin:	0
LineSpacing:	0	Name:	Young's Modulus_Label
NumericalShapes:	System	OldBorderStyle:	0
ReadingOrder:	Context	RightMargin:	0
Section:	0	SpecialEffect:	Flat
Tag:	DetachedLabel	TextAlign:	Center
TextFontCharSet:	0	Top:	1140
TopMargin:	0	Vertical:	False
Visible:	True	Width:	2820

#### User Permissions

Modify	admin	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Execute
Modify	Administrator akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Execute
	Han Reader User Xin	

#### Group Permissions

Modify	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition, Execute
	Backup Operators Full Data Users Full Permissions New Data Users Project Designers Read-Only Users Update Data Users Users	Execute Read Permissions

**Properties**

Container:	Modules	DateCreated:	7/22/2005 8:24:12 PM
LastUpdated:	7/22/2005 8:24:12 PM	Owner:	admin
UserName:	akorinda		

**Code**

```
1 Attribute VB_Name = "Custom Graph Creation Process"
2 'Author: Andrew Korinda
3 'Company: National High Magnetic Field Lab
4 'Department: Magnet Science and Technology
5 'Last Revision Date: 22-07-2005 (DD-MM-YYYY)
6
'=====
=====
==

7
'=====
=====
==

8
'=====
=====
==

9
10 'Declare all public variables
11 'For database reading/writing
12 Public rsCurrent As Object 'Hold all data points of current material
13 Public strSQL As String 'Hold the SQL to retrieve all data
14 Public strSQL2 As String 'Hold Distinct SQL statement
15
16 'For Plotting
17 Public xVar As String 'User defined choice for the x-axis of the graph
18 Public yVar As String 'User defined choice for the y-axis of the graph
19 Public xMin As Double 'Lowest value on the x-axis
20 Public xMax As Double 'Largest value on the x-axis
21 Public yMin As Double 'Lowest value on the y-axis
22 Public yMax As Double 'Largest value on the y-axis
23 Public XValL As Single 'Low x value for that material
24 Public XValH As Single 'High x value for that material
25 Public YValL As Single 'Low y value for that material
26 Public YValH As Single 'High y value for that material
27 Public range As Boolean 'True when range is custom
28
29 'For Error Checking
30 Public E As Boolean 'If E=True must exit function
31
32 Option Compare Database
33
34 Public Function Create_Graph()
35
36 'Declare variables
37 'For plotting
38 Dim linMaker As Line 'Line control for each new line
39 Dim linLegand As Line 'Line control of each legand icon
```

```
40 Dim lblUNS As Label 'Label to display UNS in legend
41 Dim lblCName As Label 'Label to display common name in legend
42 Dim xID As String 'ID of x axis property
43 Dim yID As String 'ID of y axis property
44 Dim xUnits As String 'Units of the x axis
45 Dim yUnits As String 'Units of the y axis
46 Dim xScale As Single 'Scale of the x axis
47 Dim yScale As Single 'Scale of the y axis
48 Dim xDivisions As Integer 'Number of ticks on x axis
49 Dim yDivisions As Integer 'Number of ticks on y axis
50 Dim XPosition As Single 'Vertical diagonal x value of diamond in twips
51 Dim YPosition As Single 'High point y value of diamond in twips
52 Dim ZPosition As Single 'Low point y value of diamond in twips
53 Dim APosition As Single 'Right point x value of diamond in twips
54 Dim BPosition As Single 'Horizontal diagonal y value of diamond in twips
55 Dim CPosition As Single 'Left point x value of diamond in twips
56 Dim xMinT As Single 'Low x axis twip location
57 Dim xMaxT As Single 'High x axis twip location
58 Dim xTRange As Single 'Range of x axis twips
59 Dim yMinT As Single 'Low y axis twip location
60 Dim yMaxT As Single 'High y axis twip location
61 Dim yTRange As Single 'Range of y axis twips
62 Dim xLegand As Single 'x Position of legand icon in twips
63 Dim yLegand As Single 'y Position of legand icon in twips
64 Dim xLupper As Single 'x upper limit of legand in twips
65 Dim xLlower As Single 'x lower limit of legand in twips
66 Dim yLupper As Single 'y upper limit of legand in twips
67 Dim yLlower As Single 'y lower limit of legand in twips
68 Dim IngRed As Long 'Hold value for the color red ID=1
69 Dim IngPink As Long 'Hold value for the color pink ID=2
70 Dim IngGreen As Long 'Hold value for the color green ID=3
71 Dim IngBlue As Long 'Hold value for the color blue ID=4
72 Dim IngYellow As Long 'Hold value for the color yellow ID=5
73 Dim IngCyan As Long 'Hold value for the color cyan ID=6
74 Dim IngOrange As Long 'Hold value for the color orange ID=7
75 Dim IngBlack As Long 'Hold value for the color black ID=0
76
77 'For calulations
78 Dim counter As Single 'Record number of materials graphed
79 Dim remain As Integer 'Used to determine color based on 8 color cycle
80 Dim remain2 As Integer 'Used to determine row of legand
81
82 'For database reading/writing
83 Dim rsprop As Object 'Hold axes selection and units
84 Dim rs As Object 'Hold all values needed through the process
85 Dim rsColor As Object 'Hold UNS and color ID number
86 Dim rs2 As Object 'Hold all distinct UNS numbers
87 Dim con As Object 'Hold the database to access
88 Dim strUNS As String 'Hold UNS of next material
89 Dim strSSRID As String 'Hold SSR ID for shape and size ranges
90 Dim strPID As String 'Hold P ID for property
91 Dim strCName As String 'Hold common name of material
92
93 Dim x As Integer 'For use in For Next Loops
```

```
94
95
96 'Set all constants
97 'Set Twip locations
98 xMinT = 1 * 1440
99 xMaxT = 8 * 1440
100 xTRange = xMaxT - xMinT
101 yMinT = 5.5 * 1440
102 yMaxT = 1.25 * 1440
103 yTRange = yMinT - yMaxT
104 xLlower = 0.125 * 1440
105 xLupper = 8.375 * 1440
106 yLlower = 8.5 * 1440
107 yLupper = 6.5 * 1440
108
109 'Set Divisions
110 xDivisions = 8
111 yDivisions = 5
112
113 'Set Colors
114 IngRed = RGB(255, 0, 0)
115 IngGreen = RGB(0, 255, 0)
116 IngBlue = RGB(0, 0, 255)
117 IngYellow = RGB(255, 255, 0)
118 IngPink = RGB(255, 0, 255)
119 IngOrange = RGB(255, 120, 0)
120 IngCyan = RGB(0, 255, 255)
121 IngBlack = RGB(0, 0, 0)
122
123 'Set all initials
124 counter = 0
125 E = False
126 range = False
127
128
129 'Begin
130 'Determine axes selection
131 xID = Nz(Forms![Graph Creator]!cbox.Value, "Null")
132 yID = Nz(Forms![Graph Creator]!cboy.Value, "Null")
133
134 'Check for Nulls
135 If xID = "Null" Or yID = "Null" Then
136     MsgBox "You must first chose your axes.", vbExclamation, "Empty Axes"
137     Exit Function
138 End If
139
140 strSQLprop = "SELECT * FROM [Property List] WHERE ID=" & xID & " OR ID=" & yID
141
142 Set con = Application.CurrentProject.Connection
143 Set rsprop = CreateObject("ADODB.Recordset")
144 rsprop.Open strSQLprop, con, 1 ' 1 = adOpenKeyset
145
146 While (Not (rsprop.EOF))
147     If xID = rsprop![ID] Then
```

```

148      xVar = rsprop![Property]
149      xUnits = rsprop![Units]
150  End If
151  If Val(yID) = rsprop![ID] Then
152      yVar = rsprop![Property]
153      yUnits = rsprop![Units]
154  End If
155  rsprop.MoveNext
156 Wend
157
158 rsprop.Close
159 Set rsprop = Nothing
160
161 'Create SQL statement
162 strSQL = "SELECT Materials.* , [Shape and Size Ranges].[SSR ID], Properties.[P ID],
Properties.[" & xVar & "] AS [Xlow], Properties.[" & xVar & " High] AS [Xhigh], Properties.[" & yVar & "] AS
[Ylow], Properties.[" & yVar & " High] AS [Yhigh] FROM (Materials LEFT JOIN [Shape and Size
Ranges] ON Materials.[UNS Number] = [Shape and Size Ranges].[UNS Number]) LEFT JOIN
Properties ON [Shape and Size Ranges].[SSR ID] = Properties.[SSR ID] WHERE ([" & xVar &
"]<>Null AND [" & xVar & " High]<>Null AND [" & yVar & "]<>Null AND [" & yVar &
High]<>Null)"
163 strSQL2 = "SELECT DISTINCT Materials.[UNS Number] FROM (Materials LEFT JOIN [Shape and
Size Ranges] ON Materials.[UNS Number] = [Shape and Size Ranges].[UNS Number]) LEFT
JOIN
Properties ON [Shape and Size Ranges].[SSR ID] = Properties.[SSR ID] WHERE ([" & xVar &
"]<>Null AND [" & xVar & " High]<>Null AND [" & yVar & "]<>Null AND [" & yVar &
High]<>Null)"
164
165 'Fill Additional search parameters
166 GraphParameters
167 If E = True Then Exit Function
168
169 'Retrieve desired records
170 Set rs = CreateObject("ADODB.Recordset")
171 rs.Open strSQL, con, 1 ' 1 = adOpenKeyset
172 'Check for Results
173 If (rs.EOF) Then
174     'Close ADO
175     rs.Close
176     Set con = Nothing
177     Set rs = Nothing
178     MsgBox "No results were found. Increase or erase your range to get more results.", vbInformation, "No Results"
179     Exit Function
180 End If
181
182 'Determine Range if not custom
183 If range = False Then
184     xMin = Nz(rs![Xlow], 0)
185     xMax = Nz(rs![Xhigh], 0)
186     yMin = Nz(rs![Ylow], 0)
187     yMax = Nz(rs![Yhigh], 0)
188     rs.MoveNext
189     While (Not (rs.EOF))
190         If xMin > rs![Xlow] Then xMin = rs![Xlow]
191         If xMax < rs![Xhigh] Then xMax = rs![Xhigh]
192         If yMin > rs![Ylow] Then yMin = rs![Ylow]

```

```
193      If yMax < rs![Yhigh] Then yMax = rs![Yhigh]
194      rs.MoveNext
195      Wend
196      rs.MoveFirst
197      xMin = xMin * 0.995
198      xMax = xMax * 1.005
199      yMin = yMin * 0.995
200      yMax = yMax * 1.005
201 End If
202
203 'Open form to display results
204 DoCmd.Close acForm, "Graph", acSaveNo
205 DoCmd.OpenForm "Graph", acDesign
206
207 'Set title and axis labels
208 Forms![Graph]!lblCaption = yVar
209 Forms![Graph]!lblx.Caption = xVar
210 Forms![Graph]!lblxaxis.Caption = yVar & " " & yUnits
211 Forms![Graph]!lblxaxis.Caption = xVar & " " & xUnits
212
213 'Set axis scales
214 xScale = (xMax - xMin) / xDivisions
215 yScale = (yMax - yMin) / yDivisions
216 For x = 1 To xDivisions
217     Forms![Graph]("lblxAxis" & x).Caption = Format(xMin + xScale * (x - 1), "#####0.00")
218     Forms![Graph]("lblxAxis" & x).Visible = True
219 Next x
220 For y = 1 To yDivisions
221     Forms![Graph]("lbyAxis" & y).Caption = Format(yMin + yScale * (y - 1), "#####0.00")
222     Forms![Graph]("lbyAxis" & y).Visible = True
223 Next y
224
225 'Open ADO stream for colors
226 Set rsColor = CreateObject("ADODB.Recordset")
227 rsColor.LockType = adLockOptimistic
228 rsColor.Open "SELECT * FROM [Legand]", con, 1 ' 1 = adOpenKeyset
229
230 'Empty Legand table
231 If (Not (rsColor.EOF)) Then
232     While (Not (rsColor.EOF))
233         rsColor.Delete
234         rsColor.Update
235         rsColor.MoveNext
236     Wend
237 End If
238
239 'Open ADO stream for distinct materials
240 Set rs2 = CreateObject("ADODB.Recordset")
241 rs2.Open strSQL2, con, 1 ' 1 = adOpenKeyset
242
243 counter = 0
244 While (Not (rs2.EOF))
245     counter = counter + 1
246     strUNS = rs2![UNS Number]
```

```
247  While (Not (strUNS = rs![UNS Number]))
248      rs.MoveNext
249  Wend
250  strCName = rs![Common Name]
251  rs.MoveFirst
252
253  Set rsCurrent = CreateObject("ADODB.Recordset")
254  rsCurrent.Open strSQL & " AND [Materials].[UNS Number]="" & strUNS & "", con, 1   ' 1 =
adOpenKeyset
255
256  'Find Min and Max for the material
257  MinMax
258
259  'Determine Color to use
260  remain = counter Mod 8
261
262  'Record all three in Legand with color
263  rsColor.AddNew
264  rsColor![UNS Number] = strUNS
265  rsColor![Color ID] = remain
266
267  'Create lines
268  For x = 1 To 4
269      Set linmake = CreateControl("Graph", acLine, acDetail, "", "", 1000, 1000, 1000, 0)
270      linmake.Name = "linRec" & counter & "&line" & x
271      'Color lines
272      Select Case remain
273          Case 1
274              linmake.BorderColor = IngRed
275          Case 2
276              linmake.BorderColor = IngPink
277          Case 3
278              linmake.BorderColor = IngGreen
279          Case 4
280              linmake.BorderColor = IngBlue
281          Case 5
282              linmake.BorderColor = IngYellow
283          Case 6
284              linmake.BorderColor = IngCyan
285          Case 7
286              linmake.BorderColor = IngOrange
287          Case 0
288              linmake.BorderColor = IngBlack
289          Case Else
290              MsgBox "Problem chosing a color. Setting to black.", vbInformation, "Problem"
291              linmake.BorderColor = IngBlack
292      End Select
293      'Position lines
294      XPosition = ((XValL + XValH) / 2 - xMin) / (xMax - xMin) * xTRange + xMinT
295      APosition = (XValL - xMin) / (xMax - xMin) * xTRange + xMinT
296      CPosition = (XValH - xMin) / (xMax - xMin) * xTRange + xMinT
297      YPosition = yMinT - (YValH - yMin) / (yMax - yMin) * yTRange
298      ZPosition = yMinT - (YValL - yMin) / (yMax - yMin) * yTRange
299      BPosition = yMinT - ((YValL + YValH) / 2 - yMin) / (yMax - yMin) * yTRange
```

```
300
301    If x = 1 Then
302        linmake.Left = APosition
303        linmake.Top = YPosition
304        linmake.LineSlant = True
305        linmake.Width = XPosition - APosition
306        linmake.Height = Abs(BPosition - YPosition)
307    ElseIf x = 2 Then
308        linmake.Left = XPosition
309        linmake.Top = YPosition
310        linmake.LineSlant = False
311        linmake.Width = CPosition - XPosition
312        linmake.Height = Abs(BPosition - YPosition)
313    ElseIf x = 3 Then
314        linmake.Left = XPosition
315        linmake.Top = BPosition
316        linmake.LineSlant = True
317        linmake.Width = CPosition - XPosition
318        linmake.Height = Abs(ZPosition - BPosition)
319    ElseIf x = 4 Then
320        linmake.Left = APosition
321        linmake.Top = BPosition
322        linmake.LineSlant = False
323        linmake.Width = XPosition - APosition
324        linmake.Height = Abs(ZPosition - BPosition)
325    Else
326        MsgBox "Error in positioning line. Loop occurred too often.", vbCritical, "Error"
327    End If
328
329    linmake.BorderWidth = 1
330 Next x
331
332 'Create legend icon
333 remain2 = counter Mod 5
334 If remain2 = 0 Then remain2 = 5
335 remain2 = remain2 - 1
336 yLegand = 6.5 * 1440 + 0.2 * 1440 + remain2 * 0.35 * 1440
337 If counter >= 1 And counter <= 5 Then
338     xLegand = 0.2 * 1440
339 ElseIf counter >= 6 And counter <= 10 Then
340     xLegand = 1.7 * 1440
341 ElseIf counter >= 11 And counter <= 15 Then
342     xLegand = 3.2 * 1440
343 ElseIf counter >= 16 And counter <= 20 Then
344     xLegand = 4.7 * 1440
345 ElseIf counter >= 21 And counter <= 25 Then
346     xLegand = 6.2 * 1440
347 End If
348 If counter < 25 Then
349     Set linLegand = CreateControl("Graph", acLine, acDetail, , , xLegand, yLegand + 0.15 *
1440,
0.25 * 1440, 0)
350     Set lblUNS = CreateControl("Graph", acLabel, acDetail, , , xLegand + 0.25 * 1440, yLegand,
1.2 * 1440, 0.15 * 1440)
351     Set lblCName = CreateControl("Graph", acLabel, acDetail, , , xLegand + 0.25 * 1440,
yLegand
+ 0.15 * 1440, 1.2 * 1440, 0.15 * 1440)
```

```
352     IblUNS.Name = "lbl" & strUNS
353     IblUNS.Caption = strUNS
354     IblCName.Name = "lbl" & strCName & counter
355     IblCName.Caption = strCName
356     Select Case remain
357         Case 1
358             linLegand.BorderColor = IngRed
359         Case 2
360             linLegand.BorderColor = IngPink
361         Case 3
362             linLegand.BorderColor = IngGreen
363         Case 4
364             linLegand.BorderColor = IngBlue
365         Case 5
366             linLegand.BorderColor = IngYellow
367         Case 6
368             linLegand.BorderColor = IngCyan
369         Case 7
370             linLegand.BorderColor = IngOrange
371         Case 0
372             linLegand.BorderColor = IngBlack
373     Case Else
374         MsgBox "Problem choosing a color. Setting to black.", vbInformation, "Problem"
375         linLegand.BorderColor = IngBlack
376     End Select
377     linLegand.BorderWidth = 3
378 ElseIf counter = 25 Then
379     Set IblUNS = CreateControl("Graph", acLabel, acDetail, , , xLegand + 0.25 * 1440, yLegand,
2
* 1440, 0.3 * 1440)
380     IblUNS.Name = "lblMore"
381     IblUNS.Caption = "More results then can be displayed"
382 End If
383
384     rsCurrent.Close
385     rsColor.Update
386     rsColor.MoveNext
387     rs2.MoveNext
388 Wend
389
390 'Close ADO
391 rs.Close
392 Set con = Nothing
393 Set rs = Nothing
394
395 'Close windows
396 DoCmd.OpenForm "Graph", acNormal, , , acFormReadOnly, acWindowNormal
397
398 'Tell user the job is done
399 MsgBox "Graph is finished.", vbInformation, "Done!"
400
401 End Function
402
403 Sub GraphParameters()
404
```

```
405 'Create SQL statements for possible additional parameters
406   'strSQL for use in opening report or form
407   'strSQLrs for use in ADO stream search for possible results
408 p = 0
409
410 'Check type of material parameter
411 If Forms![Graph Creator]!CheckMTC.Value = 0 And Forms![Graph Creator]!CheckMTI.Value = 0
And Forms![Graph Creator]!CheckMTS.Value = 0 Then 'If none selected then assume all
412   p = 1
413   strSQL = strSQL & "AND ([Materials].[Material Type] LIKE '%C%' OR [Materials].[Material
Type]
414     LIKE '%I%' OR [Materials].[Material Type] LIKE '%S%'"
415   ElseIf Forms![Graph Creator]!CheckMTC.Value <> 0 Then
416     p = 1
417     strSQL = strSQL & "AND ([Materials].[Material Type] LIKE '%C%'"
418     strSQL2 = strSQL2 & "AND ([Materials].[Material Type] LIKE '%C%'"
419     If Forms![Graph Creator]!CheckMTI.Value <> 0 Then
420       strSQL = strSQL & " OR [Materials].[Material Type] LIKE '%I%'"
421       strSQL2 = strSQL2 & " OR [Materials].[Material Type] LIKE '%I%'"
422     End If
423     If Forms![Graph Creator]!CheckMTS.Value <> 0 Then
424       strSQL = strSQL & " OR [Materials].[Material Type] LIKE '%S%'"
425       strSQL2 = strSQL2 & " OR [Materials].[Material Type] LIKE '%S%'"
426     End If
427   ElseIf Forms![Graph Creator]!CheckMTI.Value <> 0 Then
428     p = 1
429     strSQL = strSQL & "AND ([Materials].[Material Type] LIKE '%I%'"
430     strSQL2 = strSQL2 & "AND ([Materials].[Material Type] LIKE '%I%'"
431     If Forms![Graph Creator]!CheckMTS.Value <> 0 Then
432       strSQL = strSQL & " OR [Materials].[Material Type] LIKE '%S%'"
433       strSQL2 = strSQL2 & " OR [Materials].[Material Type] LIKE '%S%'"
434     End If
435   ElseIf Forms![Graph Creator]!CheckMTS.Value <> 0 Then
436     p = 1
437     strSQL = strSQL & "AND ([Materials].[Material Type] LIKE '%S%'"
438     strSQL2 = strSQL2 & "AND ([Materials].[Material Type] LIKE '%S%'"
439   Else
440     MsgBox "Error with material type, please try your search again.", vbCritical, "Error"
441     E = True
442     Exit Sub
443   End If
444   'Add ")"
445   If p = 1 Then
446     strSQL = strSQL & ")"
447     strSQL2 = strSQL2 & ")"
448   End If
449
450 'Check material applications parameter
451 If Forms![Graph Creator]!CheckMAD.Value = 0 And Forms![Graph Creator]!CheckMAS.Value = 0
And Forms![Graph Creator]!CheckMAP.Value = 0 Then 'If none selected then assume all
452   p = 1
453   strSQL = strSQL & " AND ([Materials].[Magnet Application] LIKE '%D%' OR
[Materials].[Magnet
Application] LIKE '%P%' OR [Materials].[Magnet Application] LIKE '%S%'"
```

```

454     strSQL2 = strSQL & " AND ([Materials].[Magnet Application] LIKE '%D%' OR
[Materials].[Magnet Application] LIKE '%P%' OR [Materials].[Magnet Application] LIKE
'%S%'"

455 ElseIf Forms![Graph Creator]!CheckMAD.Value <> 0 Then
456     p = 1
457     strSQL = strSQL & " AND ([Materials].[Magnet Application] LIKE '%D%'"
458     strSQL2 = strSQL2 & " AND ([Materials].[Magnet Application] LIKE '%D%'"
459     If Forms![Graph Creator]!CheckMAP.Value <> 0 Then
460         strSQL = strSQL & " OR [Materials].[Magnet Application] LIKE '%P%'"
461         strSQL2 = strSQL2 & " OR [Materials].[Magnet Application] LIKE '%P%'"
462     End If
463     If Forms![Graph Creator]!CheckMAS.Value <> 0 Then
464         strSQL = strSQL & " OR [Materials].[Magnet Application] LIKE '%S%'"
465         strSQL2 = strSQL2 & " OR [Materials].[Magnet Application] LIKE '%S%'"
466     End If
467 ElseIf Forms![Graph Creator]!CheckMAP.Value <> 0 Then
468     p = 1
469     strSQL = strSQL & " AND ([Materials].[Magnet Application] LIKE '%P%'"
470     strSQL2 = strSQL2 & " AND ([Materials].[Magnet Application] LIKE '%P%'"
471     If Forms![Graph Creator]!CheckMAS.Value <> 0 Then
472         strSQL = strSQL & " OR [Materials].[Magnet Application] LIKE '%S%'"
473         strSQL2 = strSQL2 & " OR [Materials].[Magnet Application] LIKE '%S%'"
474     End If
475 ElseIf Forms![Graph Creator]!CheckMAS.Value <> 0 Then
476     p = 1
477     strSQL = strSQL & " AND ([Materials].[Magnet Application] LIKE '%S%'"
478     strSQL2 = strSQL2 & " AND ([Materials].[Magnet Application] LIKE '%S%'"
479 Else
480     MsgBox "Error with magnet application, please try your search again.", vbCritical, "Error"
481     E = True
482     Exit Sub
483 End If
484 'Add ")"
485 If p = 1 Then
486     strSQL = strSQL & ")"
487     strSQL2 = strSQL2 & ")"
488 End If
489
490 'Set Range
491 xMin = Nz(Forms![Graph Creator]!txtxMin.Value, 0)
492 xMax = Nz(Forms![Graph Creator]!txtxMax.Value, 0)
493 yMin = Nz(Forms![Graph Creator]!txtyMin.Value, 0)
494 yMax = Nz(Forms![Graph Creator]!txtyMax.Value, 0)
495 If xMin = 0 And xMax = 0 And yMin = 0 And yMax = 0 Then
496     Exit Sub
497 ElseIf xMin >= xMax Or yMin >= yMax Then
498     MsgBox "The selected range is not possible. Please select a proper range.", vbExclamation,
"Bad
Range"
499     E = True
500     Exit Sub
501 Else
502     range = True
503     strSQL = strSQL & " AND ([" & xVar & "]>=" & xMin & " AND [" & xVar & " High]<=" & xMax
&
AND [" & yVar & "]>=" & yMin & " AND [" & yVar & " High]<=" & yMax & ")"

```

```
504 strSQL2 = strSQL2 & " AND ([" & xVar & "]>=" & xMin & " AND [" & xVar & " High]<=" &
xMax
      & " AND [" & yVar & "]>=" & yMin & " AND [" & yVar & " High]<=" & yMax & ")"
505 End If
506
507 End Sub
508
509 Sub MinMax()
510
511 XValL = Nz(rsCurrent![Xlow], 0)
512 XValH = Nz(rsCurrent![Xhigh], 0)
513 YValL = Nz(rsCurrent![Ylow], 0)
514 YValH = Nz(rsCurrent![Yhigh], 0)
515 rsCurrent.MoveNext
516 While (Not (rsCurrent.EOF))
517   If XValL > rsCurrent![Xlow] Then XValL = rsCurrent![Xlow]
518   If XValH < rsCurrent![Xhigh] Then XValH = rsCurrent![Xhigh]
519   If YValL > rsCurrent![Ylow] Then YValL = rsCurrent![Ylow]
520   If YValH < rsCurrent![Yhigh] Then YValH = rsCurrent![Yhigh]
521   rsCurrent.MoveNext
522 Wend
523 If XValL = XValH Then
524   XValL = XValL * 0.995
525   XValH = XValH * 1.005
526 End If
527 If YValL = YValH Then
528   YValL = YValL * 0.995
529   YValH = YValH * 1.005
530 End If
531
532 End Sub
```

#### User Permissions

Modify	admin	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition
Modify	Administrator akorinda	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition
	Han Reader User Xin	

#### Group Permissions

Modify	Admins	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition
	Backup Operators Full Data Users Full Permissions New Data Users Project Designers	

	Read-Only Users	
	Update Data Users	
	Users	Delete, Read Permissions, Set Permissions, Change Owner, Read Definition, Definition
Modify		

### **Properties**

AccessVersion:	08.50	AllowBuiltInToolbars:	True
AllowFullMenus:	True	AllowShortcutMenus:	True
AllowSpecialKeys:	True	AllowToolbarChanges:	True
ANSI Query Mode:	0	Build:	501
CollatingOrder:	General	ProjVer:	24
QueryTimeout:	60	RecordsAffected:	0
StartUpForm:	Form.Switchboard	StartUpShowDBWindow:	True
StartUpShowStatusBar:	True	Transactions:	True
Updatable:	True	UseAppIconForFrmRpt:	False
Version:	4.0		

### **User Permissions**

admin  
Administrator  
akorinda  
Han  
Reader  
User  
Xin

### **Group Permissions**

Admins  
Backup Operators  
Full Data Users  
Full Permissions  
New Data Users  
Project Designers  
Read-Only Users  
Update Data Users  
Users

**Relationships**

**MaterialsShape and Size Ranges**

<b>Materials</b>	<b>Shape and Size Ranges</b>
UNS Number	UNS Number
Attributes:	Not Enforced, Left Join
RelationshipType:	One-To-Many

**Shape and Size RangesProperties**

<b>Shape and Size Ranges</b>	<b>Properties</b>
SSR ID	SSR ID
Attributes:	Not Enforced, Left Join
RelationshipType:	One-To-Many



## **Appendix B**

### Security Profile

**Workgroup Information:**

Name: Andrew Korinda

Company: NHMFL

File Location: \\tesla\MS&T\MD&C\data base\Db\Admin\Admin1.mdw

<u>Group Name</u>	<u>Group ID</u>	<u>Permissions</u>
Admins		Full permissions
Backup Operators		Open database for backup and compacting only; can't see any objects
Full Data Users		Edit data; can't alter the design of any objects
Full Permissions		Full permissions on objects and data; can't assign permissions
New Data Users		Write and insert data; can't alter the design or delete or update data
Project Managers		Edit data and objects, can't change tables or relationships
Read-only Users		Read all data; can't change design or data
Update Data Users		Read and update data; can't alter the design or insert or delete data
Users		No permissions. This closes the Users group security hole

<u>User Name</u>	<u>Group</u>
Han	Admins
Xin	Admins
akorinda	Admins
Administrator	Admins
User	Read-only Users
Reader	Read-only Users

## **Appendix C**

### Maintenance Procedures

### **Accessing the Database:**

- Always use a shortcut
- Shortcuts follow the form:
  - Open Access, Open Workgroup, Open Database, Set User
  - “*Access.exe location*” /WRKGRP “*Workgroup Location*” “*File location*” /User *User*
- Access location must be changed to fit each computer, however standards for Office 2000, 2002, and 2003 are in the Db folder.
- Email shortcuts to users, do not let them copy the shortcut themselves
- If users are unable to open the Front End then check what their folder permissions are with IT
- Ke Han and Yan Xin are the users with full access to the folders (except security)
- General users can only read and run

### **Daily Maintenance:**

1. Open database Front End with an Admin account.
2. Import any new data
3. Open Admin form
4. Click on Update for Search command button
  - a. Answer Yes to all questions
  - b. Automatically updates Fixed Data table
5. Click on Auto-Edit data
  - a. Automatically removes all zeros and changes them to Nulls
  - b. Avoids false positives in searches.
6. Go to the Tools menu, Database Utilities, Compact and Repair Database
  - a. Prevents corruption of the database
7. Close Access
8. Make a copy of the active Front End in the FE backup folder, adding the date to the file name.
9. Open database Back End with an Admin account
10. Go to the Tools menu, Database Utilities, Compact and Repair Database
  - a. Prevents corruption of the database
11. Close Access
12. Make a copy of the active Back End in the BE backup folder, adding the date to the file name.

Note: Be sure to keep a weekly copy of the backup file on a private computer incase of file corruption.

### **Updating Table Links:**

1. Open database with an Admin account
2. Go to the Tools menu, Database Utilities, Linked Table Manager
3. Select All
4. Check the box to always ask for new location
5. Click Ok
6. Choose current BE to link to

Be careful to check that all tables have had their links updated

### **Updating File:**

To be done when a new Front End is uploaded, or files moved to a new folder

1. Perform Daily Maintenance on Front End/Back End, and new FE/BE
2. Copy new files to the server
3. Make sure replacement names are the same as the old names
4. Check all table links
5. Test shortcuts

### **Importing Data:**

1. Fill sheets in preformatted Excel file with new data
2. Open database Front End with an Admin account
3. Open Materials table in Access
4. Copy Materials sheet in Excel
5. Highlight last row of Materials table in Access
6. Paste data into Access
7. Close Materials table in Access
8. Open Other Names table in Access
9. Copy Other Names sheet in Excel
10. Highlight last row of Other Names table in Access
11. Paste data into Access
12. Close Other Names table in Access
13. Open Shape and Size Ranges table in Access
14. Copy Shape and Size Ranges sheet in Excel
15. Highlight last row of Shapes and Size Ranges in Access
16. Paste data into Access
17. Record first and last SSR ID numbers
18. Close Shape and Size Ranges in Access
19. Open Properties in Access
20. Edit SSR ID's on Properties sheet in Excel to match Access
21. Copy Properties sheet in Excel
22. Highlight last row of Properties in Access
23. Paste data into Access
24. Run daily maintenance on Front End and Back End

### **Adding a new Field:**

To add a new property field to the properties table:

1. Perform Daily Maintenance
2. Copy current FE and BE to computer
3. Open Back End with an Admin account
4. Open Properties table in design view
5. Add the field(s) to the table
6. Add any data to the field(s)
7. Close Property table
8. Open Property List table
9. Add Property and Units in correct fields
10. Close Property List Table
11. Close Back End
12. Open Front End with an Admin account
13. Open Materials form
14. Add textbox and link to field in table
15. Save and close Materials form
16. Open Materials report
17. Add new field and link to field in table
18. Save and close Materials report
19. Open Search Form form in design view
20. Add textboxes and labels to the form
21. Name textboxes following sequence
22. View code
23. Increase contexts value to new amount (Line 13 of code)
24. Add property to Sub BoxToField (Line 216 of code)
25. Save code and exit VBA window
26. Save Search Form form and exit
27. Open Admin form in design view
28. View code
29. Increase conFields value to new amount (Line 18 of code)
30. Add property to Sub FiledName (Line 77 of code)
31. Save code and exit VBA window
32. Save and close Admin form
33. Perform Daily Maintenance
34. Test new field and check for errors
35. Perform Daily Maintenance once all errors are repaired
36. Update File back onto server

## References

- Balter, Alison. (2004). *Teach Yourself Microsoft Access 2003 in 24 Hours*. Indianapolis: Sams.
- Litwin, Paul, Getz, Ken, Gunderloy, Mike. (2001). *Access 2002 Desktop Developer's Handbook*. Alameda: Sybex.
- Lomax, Paul. (1998). *VB and VBA in a Nutshell: The Languages*. New York: O'Reilly.