

# Technical Information

Wire Enamels I Mitsuper F 39



## MITSUPER F 39

### Type

MITSUPER F 39 is a high solid Theic Modified Polyester wire enamel .The enameled wire processed with MITSUPER F 39 meets the requirements as per specification of IEC 60317 - 3

### Specifications

Properties	Test Method	Unit	Specification
Specific Gravity at 25°C	ASTM D 891		1.105 + / - 0.02
<b>Viscosity</b>			
By Ford Cup B4 at 30°C	IS 3944	Seconds	130 + / - 10
By Brookfield at 25°C	ASTM D - 2196	M pas	500 - 700
Solid Content (1gm / 2hrs / 180°C)	ASTM D - 1353	Percentage	39 ± 1
Flash Point	ASTM D - 93	Degree in Celsius	45°C

**Recommended Thinner** - for thinning the enamel a special THINNER is recommended.

**Application** - By Dies or Felt Pads.

**Packing** - 210 kgs / 25 kgs in MS New barrels / drums.

Representative properties of enameled wire as per IEC - 60851 part 1 to 6 & 60317 - 3

Properties	Unit	Specification
Conductor Diameter	Millimeter	1.00
Increase in Diameter	Millimeter	0.076
Colour		Reddish Brown
<b>Mechanical Tests</b>		
Jerk Test		OK
Peel Test	Revolution	155
Elongation	Percentage	38
Flexibility		1xd - OK
Resistance to Abrasion	Unidirectional - Newton	13
<b>Thermal Tests</b>		
Heat Shock at 175°C		2.24 mm - OK
Cut Through	Degree in Celsius	300 - OK
Thermal Class	Degree in Celsius	155
<b>Electrical Tests</b>		
Breakdown Voltage	Kilovolt (KV)	9
Tandelta Bending Point	Degree in Celsius	152
<b>Chemical Test</b>		
Solvent Resistance	Pencil Hardness (H)	3H
Freon R22 Blister Test		No Blisters
Freon R22 Extraction	Percentage	Less than 0.100

**Note** - All technical properties are for guidance only. Our data reflect the latest of our knowledge and are based on the characteristics established in the laboratory and on practice experience. No warranties of any kind, either expressed or implied, are made regarding the products here described.