

## REMICATHERM For Resin Rich Insulation System of Class F

### Product

Remicatherm, one of the time tested products from the resin rich family, is a combination of a flexible muscovite calcined mica paper and glass fabric thoroughly impregnated with a high electrical grade modified epoxy resin and most suited for an insulation system of class F (upto 155 Deg C) and supplied in either folium or tape form.

### Application

Remicatherm is used for insulation of conductors and stator coils and bars of medium and high voltage motors and generators and main and interpole coils of DC traction motors. Besides this, Remicatherm is also widely used in conductor and main wall insulation of high and ultra high voltage generators where excellent resistance to corona is required.

### Technical Data

Properties	Values	Testing Method
Thickness	0.18 mm	IEC 60371-2
Thickness Tolerance	+/- 0.03 mm	IEC 60371-2
Substance	265 +/- 26 GSM	IEC 60371-2
Mica Paper	120 +/- 7 GSM	IEC 60371-2
Glass Fabric	35 +/- 3 GSM	IEC 60371-2
Resin Content	110 +/- 20 GSM	IEC 60371-2
Volatile Content	0.8%	IEC 60371-2
Tensile Strength	150 N/cm	IEC 60371-2
Stiffness	50 N/m	IEC 60371-2
Resin Flow	17 +/- 7%	IEC 60371-2
Dielectric Strength at 155 Deg C	30 kV/mm	IEC 60371-2
Dissipation Factor		
- at 23 Deg C	0.8 – 1.2%	IEC 60371-2
- at 155 Deg C	8.5 – 12.5%	IEC 60371-2
Flexural Strength	145 N/mm sq.	IEC 60371-2
Conductivity (at 20 Deg to 155 Deg C)	0.28 m/h/oc	IEC 60371-2

### **Unique Properties**

- Low tan delta values
- Excellent dimensional stability at the temperature class of the machines
- Small rise of tan delta as a function of voltage and temperature
- High dielectric and mechanical strength and thermal conductivity
- Insensitivity to moisture
- Good ageing property

### **Finish**

The finish of the material is smooth and dry and with tight rolling and sharp edges.

### **Shelf Life**

6 months from the date of manufacture stored at below 20 Deg C

### **Packing**

Remicatherm is supplied in either roll form (max. width 1000mm and length 100 mtrs) or in tape form (in widths of 15, 20 and 25mm and 50 mtr rolls) with an interleaving of moisture proof polythene. The rolls are then packed in strong wooden boxes to avoid any damage during transit or during storage.

*Disclaimer: The above is a typical product data sheet for reference purpose only and not intended for specification purpose.*