



TDS

THICK (2.0 mm to 80.0 mm) MICA INSULATION PLATE

Characteristics	Test Method	Muscovite Mica	Phlogopite Mica
Standard Size (mm)	IEC 371-2	1000 x 600, 1000 x 1200, 1000 x 2400	
Density (gm/cm ³)	IEC 371-2	2.10~2.25	2.10~2.25
Flexural strength (N/mm ²)	ISO 178	≥230	≥200
Compressive strength at 20°C (N/mm ²)	ISO 604	≥400	≥320
Dielectric strength (KV/mm) at 23°C	IEC 243	>25	>20
Insulation resistance (M-ohm) at 23°C	IEC 93	200 ~ 600	100 ~ 600
Resistance to temperature	continuous	500°C	800°C
	Peak	800°C	1000°C
Thermal Conductivity (W/m. °C)	⊥ to laminae	0.3	0.3
	= to laminae	3	3
Thermal expansion (I/°C)	⊥ to laminae	100 x 10 ⁻⁶	100 x 10 ⁻⁶
	= to laminae	10 x 10 ⁻⁶	10 x 10 ⁻⁶
Weight Loss @ 550°C for 4 Hrs	IEC371-2	< 1 %	
Water Absorption after 24 hrs	ISO 62	< 0.5 %	

Description: Muscovite and Phlogopite thick mica insulation plate are designed for use in extreme conditions and have very good properties like heat retarding, flame resisting, low thermal conductivity, good electrical insulation, high mechanical strength and non toxic.

Application: for Arc chutes, Bus bar support, Resistor bank moldings plates, Dynamic braking resistor, furnace lining, Resistor heat dissipater, Insulation of platen in heated hydraulic presses, Induction furnace.

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