



**SmithLamina™**

## Mica Insulation Plate

Smitherm Mica Insulation Plate is manufacture using best quality Muscovite or Phlogophite Mica paper with Silicon resin binder under specific heat and pressure to produce Rigid and flat surface sheets.

Mica plates have very good electrical and mechanical properties. Fully resist against high heat with excellent electrical insulation. It is well suited for any machining into any shapes.

It is widely used for Arc Chutes, Bus bar supports, Furnace Lining, Induction furnace, Resistor banks, Insulation of high heating area etc.

### AVAILABILITY

- Standard Size: 1000x1200mm
- Thickness: 2mm to 50mm, Tolerance : +/- 5%

### TECHNICAL DATASHEET

Characteristics		smitherm – sm14	smitherm – sp14
Mica type		muscovite	phlogophite
Colour		white cream	brown
Mica content	% min	90	90
Resin content	% max	10	10
Density	gm/cm <sup>3</sup>	2.15~2.25	2.15~2.25
Heat resisting continuous	°c	500	800
Heat resisting intermittent	°c	800	1000
Dielectric strength @23oc	kv/mm	>20	>18
Edge strength	kg / 0.1mm	1.3	0.9
Tensile strength	n/mm <sup>2</sup>	140	100
Flexural strength	n/mm <sup>2</sup>	>200	>180
WEIGHT LOSS @550OC FOR 4 Hrs	%	<1	<1
Water absorbaton	%	<0.5	<0.5

Data are average results of laboratory tests conducted under standard procedures and are subject to Variation, These do not constitute a warranty or representation for which we assume legal responsibility

All values are attributes of the used raw materials.

The physical data contained in this table are typical values. They are obtained on test specimens under specific conditions and represent average values of a large number of tests. The results obtained on these tests specimens cannot be applied to finished parts without reservations, as behaviour is influenced by processing and shaping.