

Silicon Mica Sheet

Silicon Mica Sheets, hot pressed layers of mica paper sheets, a mineral with a laminated structure composed of aluminium, silicon, oxygen, and other elements. The layers are bonded together using specialized silicon / epoxy resins or adhesives. These sheets are known for their high dielectric strength, excellent thermal resistance, and resistance to chemicals, moisture, and flames, and hot molten splashes of iron and metals.

Application

Commonly - In foundries, mica sheets are used to insulate and separate components during casting processes. Their ability to withstand the intense heat upto 1200°C of molten metals - makes them indispensable for maintaining the integrity of moulds and refractory linings.

Mica sheets also act as heat shields in welding and brazing processes. Their capacity to withstand extreme temperatures protects surrounding components and prevents distortion or damage due to excessive heat exposure.

Availability.

Mica Sheets are available with silicon or bonding in muscovite and phlogopite mica to suit different temperature applications, with thickness ranging from 0.5mm to 50mm.

Machined components are also available as per drawing.





Deviations in specifications, construction, sizes or packing can be made upon customers' requests.

Shelf Life

Mica sheets exhibit a shelf life of 12 months from date of manufacture when stored at a temperature 25°C and 50 % relative humidity.

Item	Unit	Mica Sheets	
Mica Type		Muscovite	Phlogopite
Colour		Cream	Brown
Mica Content	%	90	90
Resin Content	%	12	10
Density	g/cc	2.1	2.1
BDV at RT	kV / mm	18	15
Compressive Strength @ 350°C	N / mm ²	200	150

Hatim Dielectrics Private Limited

-  17/11 & 17/12 K B Sarani (Mall Road), Dum Dum, Kolkata 700 080 (India)
-  +91 33 4044 5152 / 4044 5252 / 4064 5151
-  www.hatimdielectrics.in  info@hatimdielectrics.in



50 yrs
of innovation