

Overview

Our Silicone Bonded Mica Sheet is a versatile and high-performance heat and electrical insulation material. It is made from a combination of muscovite mica bonded with a special silicone resin. The result is a rigid sheet that can withstand elevated temperatures and provide very good dielectric strength.

Because of its combination of thermal and electrical properties, Silicone Bonded Mica is used in a variety of areas. These include high temperature washers and gaskets, brake grid insulators, thermal and electrical barriers and more.

This type of mica sheet will withstand continuous temperatures up to 500°C plus short-term spikes to 600°C. It has a very low thermal conductivity that effectively prevents heat transfer.

Typical Applications Include...

- Electrical and thermal insulation for high temperature ovens.
- The manufacture of insulators for heat exchangers.
- Brake grid insulators.
- Custom stand off insulators for high temperature requirements.
- High temperature, dielectric gaskets and washers.
- Bolt insulators.
- The manufacture of insulation components for high voltage machinery, switchgear, furnaces and welding machines.
- As an insulation material in the glass, ceramic, metal processing and power generation sectors.



Key Specifications

Temperature Resistance	500°C
Colour	Light Grey
Specific Gravity (@ 20°C)	2.05 – 2.15
Compressive Strength Ambient @ 350°C	350 MPa 200 MPa
Dielectric Strength (ambient)	> 20kV/mm

Custom Silicone Bonded Mica Sheets and Parts.

All the smaller sizes of Silicone Bonded Mica sheets listed on the next page are cut to order. Consequently, it is no problem to produce custom sized sheets, panels or parts.

More complex components can also be produced through either water cutting, machining or some combination of the two. This includes insulating washers, pads, blocks, bushes, gears and much more.

For more information on custom components made from our Silicone Bonded Mica Insulation Sheet, please do contact us.



Silicone Bonded Mica Sheet Sizes.

The tables below list all our standard sizes of Silicone Bonded Mica. To quickly find any on our website, just search for the SWM part number listed. Alternatively, browse the full range at swiftsupplies.com.au/mica-sheet-insulation-materials

Thickness	Small Sheets 300mm x 500mm	Medium Sheets 500mm x 600mm
0.5mm	SWM000207P01V0001	SWM000207P01V0010
0.8mm	SWM000207P01V0002	SWM000207P01V0011
1mm	SWM000207P01V0003	SWM000207P01V0012
1.5mm	SWM000207P01V0004	SWM000207P01V0013
2mm	SWM000207P01V0005	SWM000207P01V0014
3mm	SWM000207P01V0006	SWM000207P01V0015
4mm	SWM000207P01V0007	SWM000207P01V0016
5mm	SWM000207P01V0008	SWM000207P01V0017
6mm	SWM000207P01V0009	SWM000207P01V0018

Thickness	Large Sheets 600mm x 1000mm
0.5mm	SWM000207P01V0019
0.8mm	SWM000207P01V0020
1mm	SWM000207P01V0021
1.5mm	SWM000207P01V0022
2mm	SWM000207P01V0023
3mm	SWM000207P01V0024
4mm	SWM000207P01V0025
5mm	SWM000207P01V0026
6mm	SWM000207P01V0027