Electrical Insulation & Conductors

Silicone Bonded Mica Sheet

Quality ISO 9001

Silicone Bonded Mica is a rigid, high temperature insulation material manufactured from Muscovite Mica laminations which are bound with a silicone resin. It possesses low thermal conductivity and performs at continuous temperature as high as 500ºC, and in short term intervals of 600ºC. Exhibiting excellent dielectric and tensile strength, this high quality material also offers excellent chemical resistance and is non-flammable. The many performance capabilities of this unique product has led to it being utilised in a wide range of different applications, including heat shields, corona protection barriers, arc shields, stand-off & brake grid insulators, as well as thermal and electrical barriers.

Technical Data:

Property:	Typical Value:
Colour	Silver/Grey
Construction	Muscovite/Silicone Binding Resin
Binding Resin Content	< 12%
Specific Gravity	2.1 at 20ºC
Weight loss After Initial Heating	< 2%
Maximum Temperature	500ºC continuous
Maximum Temperature	600ºC short duration
Compressive Strength	350 MPa at ambient temp
Compressive Strength	200 MPa at 350ºC
Dielectric Strength	>20 kV/mm at ambient temp

Applications:

- Thermal and electrical insulation
- Corona protection barriers
- Arc and heat shields
- Stand off and brake grid insulators
- Flange insulation washers
- Components for high voltage machinery and switchgear

Availability:

Silicone Bonded Mica Sheet is available in thicknesses ranging from 0.2mm through to 25mm and in a sheet size of 1220 x 1016mm. Custom shaped components can also be cut to suit your specifications.

Associated Gaskets also stock a large range of rigid and thermal insulation materials as well as specialised electrical products. Fore more information on these products and many more, please visit our website or call your nearest AG branch.

Important
This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.