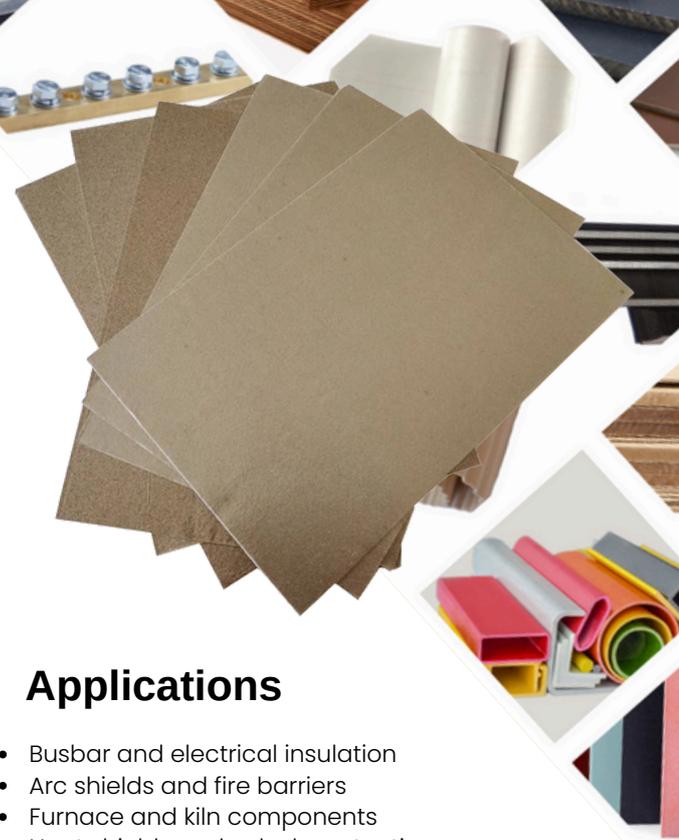


SILICONE MICA

PHLOGOPITE

BUILT FOR HEAT,
DESIGNED TO LAST.

ENGINEERED | PROTECTION | STRENGTH



Key Features

- High-temperature insulation (to 1000°C)
- Non-combustible, low - smoke.
- Strong dielectric performance
- Excellent thermal shock resistance
- High mechanical stability
- Chemical and oil resistant
- Low moisture absorption
- CNC machinable
- Asbestos-free, halogen-free
- RoHS, REACH & IEC compliant
- ISO 9001 / 14001 / 45001 production



Applications

- Busbar and electrical insulation
- Arc shields and fire barriers
- Furnace and kiln components
- Heat shields and splash protection
- Industrial heaters and exhaust systems
- Turbine, generator & battery insulation
- EV and automotive heat protection
- Oil, gas & petrochemical hot zones
- Aerospace, defence & rail systems
- CNC-machined thermal components



Product Details

Property	Value
Material	High-temperature, non-combustible phlogopite mica composite.
Thickness Range	0.20 mm to 50 mm (custom laminations available).
Standard Colour	Natural golden-brown.
Surface Finish	Smooth, low-porosity finish suitable for precision machining.
Machining	CNC compatible; suitable for drilling, routing, shaping



Silicone-bonded phlogopite mica is a high-temperature insulating material engineered for environments where extreme heat, flame exposure, and electrical demands converge. It delivers stable mechanical strength, excellent dielectric performance, and exceptional thermal shock resistance, even under continuous temperatures approaching 1000°C.



MISCO Australia offers in-house CNC machining to tailor sheets to your specifications:

- Accepted file formats: DXF, DWG, PDF
- Physical sample reverse engineering available
- Cut, drilled, slotted, profiled, and deburred parts.
- Batch or one-off production available on request.

- ✓ Switchboard Builders
- ✓ Transformer Manufacturing
- ✓ Power Generation
- ✓ Rail Infrastructure
- ✓ Renewable Energy
- ✓ Energy

- ✓ Industrial Machinery
- ✓ Defence
- ✓ Manufacturing
- ✓ Oil and Gas
- ✓ Automotive & Aerospace
- ✓ Electrical and Electronics

