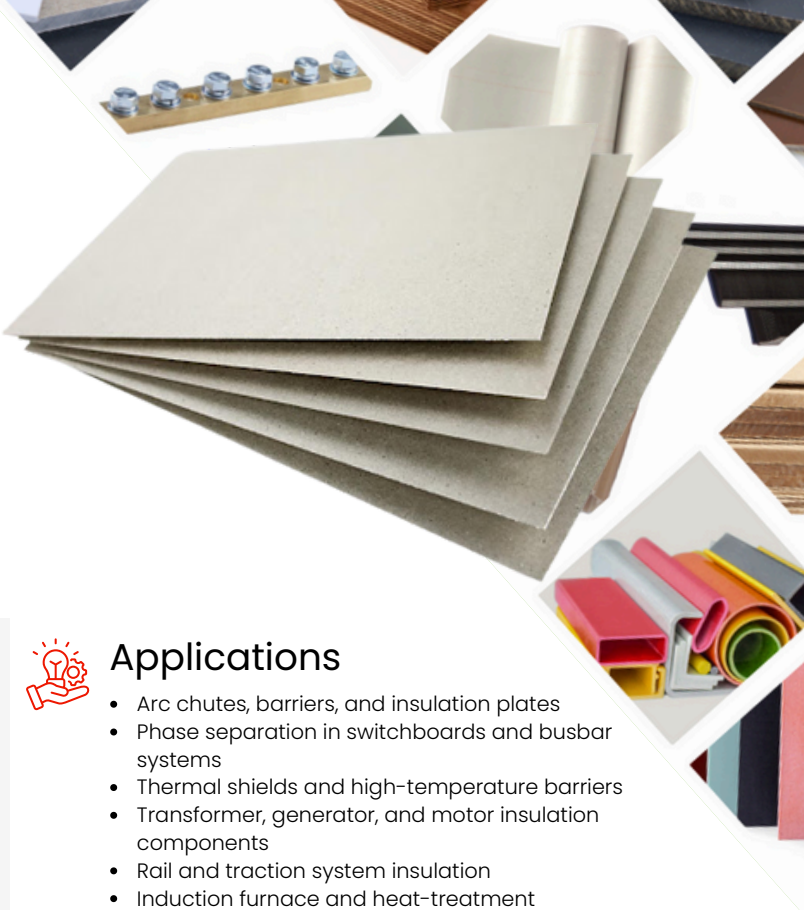
SILICONE MICA

MUSCOVITE

HIGH-TEMPERATURE ELECTRICAL INSULATION

DURABLE | HEAT-RESISTANT | INSULATING



Key Features

- High Dielectric Strength- Reliable insulation performance for LV, MV, and HV assemblies.
- Thermal Class F/H Capability- Stable at 155–180°C continuous operating temperatures.
- Flame & Arc Resistant- Silicone resin system resists tracking, carbonization, and arc erosion.
- Low Smoke, Low Toxicity - Suitable for enclosed switchboards, rail, and industrial environments.
- Strong Mechanical Stability - Retains rigidity and dimensional accuracy under heat and load.
- Moisture & Oil Resistant - Low absorption ensures consistent electrical performance.
- Clean CNC Machinability - Produces accurate, clean-cut components with predictable tolerances.
- Vibration Resistant - Performs reliably in equipment exposed to mechanical stress.
- Asbestos-Free & Environmentally Compliant -Meets RoHS and REACH requirements.

Applications

- Arc chutes, barriers, and insulation plates
- Phase separation in switchboards and busbar systems
- Thermal shields and high-temperature barriers
- Transformer, generator, and motor insulation components
- Rail and traction system insulation
- Induction furnace and heat-treatment equipment
- High-temperature mounting plates, jigs, and fixtures
- Aerospace, defence, and industrial machinery
- Electronics and high-voltage assemblies

Product Details

Property	Value
Material	Muscovite mica paper with high-temperature silicone resin.
Thickness Range	0.1–50 mm.
Standard Colour	Natural silver-grey
Surface Finish	Smooth matte fiber finish.
Machining	CNC compatible; suitable for drilling, routing, shaping

Silicone Mica Muscovite is a premium, high-dielectric, heat-resistant composite made from muscovite mica paper bonded with high-temperature silicone resin.

It delivers stable electrical and thermal insulation at elevated temperatures, retaining mechanical integrity where standard polymers and phenolics fail.

Designed for harsh industrial, thermal, and electrical environments, it is a proven choice for demanding Australian and international applications.

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

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