

HIGH TEMPERATURE

ARAMID PAPER 410/411/414 TYPES

ADVANCED INSULATION FOR A DEMANDING WORLD

PERFORMANCE UNDER PRESSURE



Key Features

- Class H (180 °C) thermal rating with long-term ageing resistance
- Outstanding dielectric strength across a broad temperature and humidity range
- High mechanical strength and tear resistance
- Superior dimensional stability under heat, moisture, and electrical load
- Low moisture absorption and rapid drying characteristics
- Compatible with oil-filled, dry-type, and resin-impregnated insulation systems
- Non-fibrous surface ideal for precision converting and CNC cutting
- Excellent chemical resistance – unaffected by most solvents, oils, and varnishes
- Halogen-free, asbestos-free, and environmentally compliant



Applications

- Power and distribution transformers (layer insulation, barrier insulation, core tubes, spacers, wedges)
- Motors and generators (slot liners, phase insulation, wedges, coil end insulation)
- Switchgear and control equipment
- EV and automotive electrical systems
- Aerospace and defence electrical insulation
- Busbar and conductor insulation
- Battery systems, energy storage, and inverters
- Thermal barriers in electronics and high-temperature assemblies



Product Details

Property	Value
Material	Meta-aramid electrical insulation paper
Thickness Range	0.05 mm – 0.76 mm (grade dependent)
Standard Colour	Cream / Off-White (natural meta-aramid colour)
Surface Finish	<ul style="list-style-type: none"> • Smooth, densified (410 / 414) • Soft, fibrous (411)
Machining	CNC compatible; suitable for drilling, routing, shaping



High-Temperature Aramid Paper is a Class H (180 °C) meta-aramid insulation material designed for long-life electrical and thermal applications. It provides reliable dielectric strength, mechanical stability, and heat resistance for motors, transformers, switchgear, EV systems, and industrial electrical equipment. Available in calendared, uncalendared, and resin-compatible grades (410 / 411 / 414), it offers consistent performance, low moisture absorption, and broad chemical compatibility across oil-filled, dry-type, and resin-impregnated systems.



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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