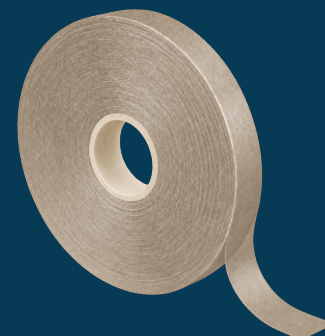


CALCINED PHLOGOPITE / GLASS

Enhanced Phlogopite Mica Tape

For smaller conductors and demanding cable designs

Calcined phlogopite mica paper reinforced on one side with non-alkaline glass fabric and impregnated with high-temperature resistant silicone resin.



0.10-0.14 mm
NOMINAL THICKNESS

5-1000 mm
AVAILABLE WIDTHS

CP80-CP160
FIVE STANDARD GRADES

Small conductors
PREFERRED APPLICATION

• **ENHANCED FIRE-PERFORMANCE MATERIAL**

Greater stability. Cleaner, consistent taping.

Calcining is a controlled heat treatment of the mica before tape manufacture. In this enhanced grade, it improves stability during processing and fire testing and enables greater resin uptake, helping reduce mica delamination and glass-fibre fraying compared with standard phlogopite tape.

Typical applications

Particularly suited to **smaller conductors**, narrow-width wrapping and high-speed taping. For fire-resistant power, control, instrumentation and signalling cables.

Typical uses include emergency lighting, fire alarms and essential circuits in hospitals, rail tunnels, public buildings and industrial installations.

Optimising total acquisition cost

CTUK prioritises the thinner grades where the cable design allows, to reduce mica used per cable length and lower total acquisition cost. We work directly with manufacturing and technical teams to optimise grade, width and wrapping geometry while maintaining the required finished-cable fire performance.

Material-selection and cable-construction support is provided at no extra cost. Changes are validated in the complete cable design.

Performance advantages

Processing stability

Calcined mica helps deliver consistent handling and wrapping.

Reduced delamination

Enhanced impregnation helps retain mica layer cohesion.

Less fibre fraying

Resin bonding helps keep glass reinforcement intact.

Small-conductor suitability

Flexible construction for tighter wraps and narrow widths.

High-speed application

High tensile strength supports efficient conductor taping.

Fire-resistant insulation

Mica maintains a dielectric barrier during fire exposure.

WIDTH

5-1000 mm

Custom slit widths on request

CORE IDS

76 / 100 / 120 mm

Standard core options

WINDING

Pads or spools

Lengths and dimensions to suit your requirements

Storage: Minimum shelf life 12 months at 20 °C. Avoid direct sunlight, high humidity and large temperature fluctuations.

Technical data

Enhanced calcined phlogopite / five standard grades

Single-side glass-reinforced construction

Mica paper bonded to glass fabric with silicone resin

CALCINED PHLOGOPITE MICA PAPER

SILICONE RESIN BOND / IMPREGNATION

NON-ALKALINE GLASS FABRIC

Enhanced stability

Calcined mica with silicone impregnation

Mechanical support

Glass fabric reinforcement for processing

• PHYSICAL AND ELECTRICAL PROPERTIES

PROPERTY	UNIT	CP80G32	CP100G32	CP120G32
Nominal thickness	mm	0.10 ±0.015	0.11 ±0.015	0.12 ±0.015
Total substance	g/m ²	127 ±11	148 ±11	172 ±11
Mica content	g/m ²	80 ±5	100 ±5	120 ±5
Glass content	g/m ²	32 ±3	32 ±3	32 ±3
Binder content	g/m ²	15 ±3	16 ±3	20 ±3
Dielectric strength	kV/layer	>1.0	>1.1	>1.2
Tensile strength	N/cm	>100	>120	>120

PROPERTY	UNIT	CP140G32	CP160G32
Nominal thickness	mm	0.13 ±0.015	0.14 ±0.015
Total substance	g/m ²	193 ±11	216 ±11
Mica content	g/m ²	140 ±5	160 ±5
Glass content	g/m ²	32 ±3	32 ±3
Binder content	g/m ²	21 ±3	24 ±3
Dielectric strength	kV/layer	>1.4	>1.4
Tensile strength	N/cm	>120	>120

FIRE TESTING

Tested to: IEC 60331 | BS 6387 CWZ | BS EN 50200

BS 8434-2 | DIN 4102 | AS/NZS 3013

Finished-cable performance depends on the complete construction and applicable test conditions.

SUPPLY LENGTHS

Pads: 300-2000 m | Spools: 2000-20,000 m

Custom sizes, slit widths and winding styles available on request.