

Free of halogens and toxic gases, this muscovite mica tape has been developed for the fabrication of fire resistant cables. Being highly flexible, it can be used with high speed taping machines when the thickness of the tape has to be reduced.

This muscovite mica tape consists of a thin calcined muscovite mica paper, impregnated with a specific high-grade silicon resin and backed by a high quality glass-cloth. When the cable is exposed to flames, at temperatures > 450 °C, the silicon binder is converted into silicium dioxide and mica continues keeping a perfect electrical insulation of the fire-resistant cable.

In addition, this mica tape releases no toxic materials at all and therefore can be manipulated without need of any specific protection.

Conditioning dimensions upon request (pads and spools).


Muscovite mica tape 0,10 mm - ref : CM-0,10 FG 23

Properties		Standard	Values	Units
Composition	Tape thickness	IEC 371-2	0,10 ± 0,015	mm
	muscovite mica content	IEC 371-2	80 ± 5	g/m2
	glass content	IEC 371-2	23 ± 2	g/m2
	binder content	IEC 371-2	21 ± 3	g/m2
	total weight		124 ± 7	g/m2
Weight loss		IEC 371-2	< 0,5	%
Water absorption		IEC 371-2	< 0,5	%
Dielectric strength		IEC 371-2	> 1,4	KV/layer
Tensile strength		ISO 527	> 100	N/cm
Storage conditions	2 years at a temperature < 23°C and ~ 65% humidity			

Muscovite mica tape 0,11 mm - ref : CM-0,11 FG 32

Properties		Standard	Values	Units
Composition	Tape thickness	IEC 371-2	0,11 ± 0,015	mm
	muscovite mica content	IEC 371-2	100 ± 5	g/m2
	glass content	IEC 371-2	32 ± 2	g/m2
	binder content	IEC 371-2	23 ± 3	g/m2
	total weight		155 ± 7	g/m2
Weight loss		IEC 371-2	< 0,5	%
Water absorption		IEC 371-2	< 0,5	%
Dielectric strength		IEC 371-2	> 1,5	KV/layer
Tensile strength		ISO 527	> 100	N/cm
Storage conditions	2 years at a temperature < 23°C and ~ 65% humidity			

Muscovite mica tape 0,12 mm - ref : CM-0,12 FG 32

Properties		Standard	Values	Units
Composition	Tape thickness	IEC 371-2	0,12 ± 0,015	mm
	muscovite mica content	IEC 371-2	120 ± 6	g/m2
	glass content	IEC 371-2	32 ± 2	g/m2
	binder content	IEC 371-2	25 ± 3	g/m2
	total weight		177 ± 8	g/m2
Weight loss		IEC 371-2	< 0,5	%
Water absorption		IEC 371-2	< 0,5	%
Dielectric strength		IEC 371-2	> 1,6	KV/layer
Tensile strength		ISO 527	> 100	N/cm
Storage conditions	2 years at a temperature < 23°C and ~ 65% humidity			

TECHNICAL SPECIFICATIONS
Fire Resistant mica tape: muscovite - glass cloth

Reference

TDS-2 (English)

Date

18-03-20

Total page number

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Muscovite mica tape 0,14 mm - ref : CM-0,14 FG 32

Properties	Standard	Values	Units
Composition			
Tape thickness	IEC 371-2	0,14 ± 0,015	mm
muscovite mica content	IEC 371-2	130 ± 6	g/m2
glass content	IEC 371-2	32 ± 2	g/m2
binder content	IEC 371-2	30 ± 3	g/m2
total weight		192 ± 10	g/m2
Weight loss	IEC 371-2	< 0,5	%
Water absorption	IEC 371-2	< 0,5	%
Dielectric strength	IEC 371-2	> 1,7	KV/layer
Tensile strength	ISO 527	> 100	N/cm
Storage conditions	2 years at a temperature < 23°C and ~ 65% humidity		

Muscovite mica tape 0,15 mm - ref : CM-0,15 FG 32

Properties	Standard	Values	Units
Composition			
Tape thickness	IEC 371-2	0,15 ± 0,015	mm
muscovite mica content	IEC 371-2	145 ± 6	g/m2
glass content	IEC 371-2	32 ± 2	g/m2
binder content	IEC 371-2	31 ± 3	g/m2
total weight		208 ± 10	g/m2
Weight loss	IEC 371-2	< 0,5	%
Water absorption	IEC 371-2	< 0,5	%
Dielectric strength	IEC 371-2	> 1,9	KV/layer
Tensile strength	ISO 527	> 100	N/cm
Storage conditions	2 years at a temperature < 23°C and ~ 65% humidity		