

	TECHNICAL SPECIFICATIONS		
	Fire Resistant mica tape: phlogopite - glass cloth		
Reference	Date	Total page number	
TDS-1 (English)	18-03-20	2	

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

This phlogopite mica tape consists of a thin phlogopite 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).



Phlogopite mica tape 0,08 mm - ref : P-0,08 FG 23

Properties	Standard	Values	Units
Composition			
Tape thickness	IEC 371-2	0,08 ± 0,015	mm
phlogopite mica content	IEC 371-2	75 ± 5	g/m ²
glass content	IEC 371-2	23 ± 2	g/m ²
binder content	IEC 371-2	12 ± 3	g/m ²
total weight		110 ± 10	g/m ²
Weight loss	IEC 371-2	< 0,5	%
Water absorption	IEC 371-2	< 0,5	%
Dielectric strength	IEC 371-2	> 1,1	KV/layer
Tensile strength	ISO 527	> 80	N/cm
Storage conditions	2 years at a temperature < 23°C and ~ 65% humidity		

Phlogopite mica tape 0,10 mm - ref : P-0,10 FG 32

Properties	Standard	Values	Units
Composition			
Tape thickness	IEC 371-2	0,1 ± 0,015	mm
phlogopite mica content	IEC 371-2	80 ± 5	g/m ²
glass content	IEC 371-2	32 ± 2	g/m ²
binder content	IEC 371-2	16 ± 3	g/m ²
total weight		128 ± 10	g/m ²
Weight loss	IEC 371-2	< 0,5	%
Water absorption	IEC 371-2	< 0,5	%
Dielectric strength	IEC 371-2	> 1,1	KV/layer
Tensile strength	ISO 527	> 120	N/cm
Storage conditions	2 years at a temperature < 23°C and ~ 65% humidity		

Phlogopite mica tape 0,11 mm - ref : P-0,11 FG 32

Properties	Standard	Values	Units
Composition			
Tape thickness	IEC 371-2	0,11 ± 0,015	mm
phlogopite mica content	IEC 371-2	100 ± 6	g/m ²
glass content	IEC 371-2	32 ± 2	g/m ²
binder content	IEC 371-2	18 ± 3	g/m ²
total weight		150 ± 12	g/m ²
Weight loss	IEC 371-2	< 0,5	%
Water absorption	IEC 371-2	< 0,5	%
Dielectric strength	IEC 371-2	> 1,2	KV/layer
Tensile strength	ISO 527	> 120	N/cm
Storage conditions	2 years at a temperature < 23°C and ~ 65% humidity		

Phlogopite mica tape 0,12 mm - ref : P-0,12 FG 32

Properties	Standard	Values	Units
Composition			
Tape thickness	IEC 371-2	0,12 ± 0,015	mm
phlogopite mica content	IEC 371-2	110 ± 6	g/m ²
glass content	IEC 371-2	32 ± 2	g/m ²
binder content	IEC 371-2	18 ± 3	g/m ²
total weight		160 ± 12	g/m ²
Weight loss	IEC 371-2	< 0,5	%
Water absorption	IEC 371-2	< 0,5	%
Dielectric strength	IEC 371-2	> 1,3	KV/layer
Tensile strength	ISO 527	> 120	N/cm
Storage conditions 2 years at a temperature < 23°C and ~ 65% humidity			

Phlogopite mica tape 0,13 mm - ref : P-0,13 FG 32

Properties	Standard	Values	Units
Composition			
Tape thickness	IEC 371-2	0,13 ± 0,015	mm
phlogopite mica content	IEC 371-2	125 ± 8	g/m ²
glass content	IEC 371-2	32 ± 2	g/m ²
binder content	IEC 371-2	18 ± 3	g/m ²
total weight		175 ± 14	g/m ²
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	> 120	N/cm
Storage conditions 2 years at a temperature < 23°C and ~ 65% humidity			

Phlogopite mica tape 0,14 mm - ref : P-0,14 FG 32

Properties	Standard	Values	Units
Composition			
Tape thickness	IEC 371-2	0,14 ± 0,015	mm
phlogopite mica content	IEC 371-2	145 ± 8	g/m ²
glass content	IEC 371-2	32 ± 2	g/m ²
binder content	IEC 371-2	20 ± 3	g/m ²
total weight		197 ± 14	g/m ²
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	> 120	N/cm
Storage conditions 2 years at a temperature < 23°C and ~ 65% humidity			

Phlogopite mica tape 0,15 mm - ref : P-0,15 FG 32

Properties	Standard	Values	Units
Composition			
Tape thickness	IEC 371-2	0,15 ± 0,015	mm
phlogopite mica content	IEC 371-2	160 ± 8	g/m ²
glass content	IEC 371-2	32 ± 2	g/m ²
binder content	IEC 371-2	22 ± 3	g/m ²
total weight		214 ± 14	g/m ²
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	> 120	N/cm
Storage conditions 2 years at a temperature < 23°C and ~ 65% humidity			