

Flexible mica sheets

General description

Cogemicanite 132 is a flexible micanite which can be formed at room temperature and is entirely free of asbestos. The material consists of Muscovite (132-2) or Phlogopite (132-1P) Cogemica mica paper, impregnated with a heat resistant binder and polymerized by a heat treatment.

The choice of material depends on the application. Compared to Phlogopite, the Muscovite is harder, clearer in colour and reacts differently to heat.

Other self-adhesive or high mechanical resistance products can also be supplied.

Flexible Cogemicanite 132 meets the following specifications: IEC 371-3, VDE 0332 / DIN 40612 – FLM 3358, UNEL 02412 – VMHK, NF C 26 – 120, UL 94 V-0. Admitted for use in contact with food for human consumption (CERIA Institute)

Applications

Because of its excellent thermal and electrical properties, flexible Cogemicanite 132 is used in electro-domestic appliances, such as hairdryers, fan-heater type space heaters, circuit breakers and transformers, etc.

It is used as sheathing or covering, and also as a separator or insulati foil. Its spring power is used in some applications.

Flexible Cogemicanites 132 retain their intrinsic properties up to 500°C in the case of Muscovite and up to 700°C in the case of Phlogopite in continuous service. Heat resistance is 800°C and 1000°C respectively in intermittent service.

Flexible Cogemicanite 132 can be cut to size without any problem, either by shearing or die-stamping.

Availability

In sheets of: 1200 x 1000 mm
600 x 1000 mm

In strips and cut parts, according to drawings.

Storage

6 years at 20°C.

Characteristics

Type		132-2	132-1P	
Thickness	mm	from 0.1 to 2	from 0.1 to 2	Informative value
Cogemica	%	91-94	93-96	IEC 371-2
Binder	%	6-9	4-7	IEC 371-2
Thermal conductivity	W.K ⁻¹ .m ⁻¹	0,20	0,20	Informative value
Specific heat	J.g ⁻¹ .K ⁻¹	0,25	0,25	Informative value
Thermal expansion factor	°C ⁻¹	60 x 10 ⁻⁶	60 x 10 ⁻⁶	Perpendicular to layers
	°C ⁻¹	10 x 10 ⁻⁶	10 x 10 ⁻⁶	Parallel to layers
Heat resistance	°C	500°C	700°C	In continuous service
	°C	800°C	1000°C	In intermittent service
Flame resistance	-	V – 0	V – 0	UL 94
Oxygen index	-	90	90	ASTM – 02683
Dielectric strength	KV/mm	>20	>20	IEC 243-1 (23°C)
Dielectric constant	-	4.5	4.5	VDE 0303
Tracking resistance	-	KA 3c	KA 3c	VDE 0303

Data are average results of laboratory tests conducted under standard procedures and are subject to variation. These do not constitute a warranty or representation for which we assume legal responsibility.

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