



# INDUSTRIAL GASKETS

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## DATA SHEET

### MICA SHEET

#### DESCRIPTION

Mica Sheet (Cogemicanite 132) is a flexible micanite which can be formed at room temperature and is entirely free of asbestos. The material consists of Muscovite or Phlogopite Cogemica mica paper, impregnated with a heat resistant binder and polymerised 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.

#### SPECIFICATIONS

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 – O

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

Heat resistance is 800°C and 1000°C respectively in intermittent service.

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## SIZE/AVAILABILITY

Flexible Cogemicanite 132 can be cut to size, either by shearing or die-stamping. In strips and in cut parts, according to drawings.

Available in sheets of 1200 x 1000 mm (Thickness from 0.1 to 2.0 mm)  
600 x 1000 mm (Thickness from 0.1 to 2.0 mm)

## PHYSICAL PROPERTIES

COMPOSITION - CHARACTERISTICS	TEST METHOD	MUSCOVITE 132-2	PHLOGOPITE 132-1P
Cogemica	IEC 371-2	94%	96%
Binder	IEC 371-2	6%	4%
Heat Conductivity		ca0.2 W/m/°C	
Specific Heat		ca 0.25	
Thermal Expansion	⊥ to the layers // to the layers	ca 60 x 10 <sup>-6</sup> cm/cm/° C ca 10 x 10 <sup>-6</sup> cm/cm/° C	
	In Continuous Service	500°C	700°C
Heat Resistance	In Intermittent Service	800°C	1000°C
Flame Resistance	UL 94	94 V – 0 Certificate E67143(M)	
Oxygen Index	ASTM – 02683	90	
Dielectric Strength	IEC 243 (23°C)	>20 KV/mm	
Dielectric Constant	VDE 0303	E, 4.5	
Tracking Resistance	VDE 0303	Ka 3c	

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