

Data / Specification Sheet • Novus Hi-Temp

Novus Hi-Temp consists of phlogopite mica paper impregnated with a high quality silicone binder. The material is produced in conjunction with Cogebi – the world leader in mica technologies and contains Cogemica.

Mica is a aluminosilicate of mineral origin, which has a lamellar and non fibrous structure representing an excellent alternative to asbestos at high temperatures. This material gives Novus Hi-Temp its thermal characteristics – weight loss at 800°C (1472°F) less than 5% – and its chemical resistance to solvents, acids, bases and mineral oils.



Service

Novus Hi-Temp is developed specially for high temperature applications (up to 1000°C) as a sheet material, filler for spiral wound gaskets or facing for camprofiles. The material offers outstanding resistance to elevated temperatures as well as good sealability at moderate pressures.

Applications

Exhaust manifolds, gas turbines, gas and oil burners, heat exchangers.

Features

Maximum continuous service temperature 1000°C

Maximum operating pressure
Spiral Wound 100 bar*

Maximum operating pressure
Camprofile 20 bar

Maximum operating pressure
Sheet 5 bar

* Within a zonal spiral wound gasket ie, windings of mica and graphite

Availability

In rolls or sheets, or as winding strip for spiral wound gaskets.

Storage

Should be stored in a cool, dry place away from sources of humidity.

Physical properties

Thickness	mm	0.1 - 3
Density (IEC371-2)	g/cm ³	1.9
Tensile Strength (DIN52910)	N/mm ²	20
Compressibility (ASTM F36J)	%	25
Recovery (ASTM F36-J)	%	35
Dielectric Strength (IEC243 - 23°C)	kV/mm	± 20
Creep Strength (DIN 52913)		
50Mpa, 300°C*	N/mm ²	± 40
7252 psi, 572°F*	psi	5.800
Cogemica		Phlogopite
Binder		Silicon Resin
Resin Content	%	± 10

*The measurement was performed on Novus Hi-Temp with a pegged steel insert.

The operating temperature of non-asbestos sheet material is related to the thickness of materials selected. Thinner materials give better temperature and pressure properties.

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