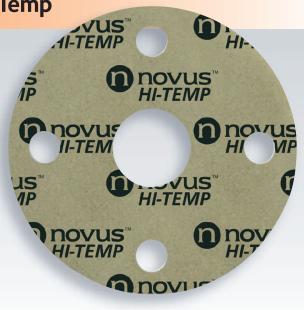




# Data / Specification Sheet • Novus Hi-Temp

**Novus Hi-Temp** consists of phlogopite mica paper impregnated with a high quality silicone binder. The material is produced in conjuction 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 would 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/cm³	1.9
Tensile Strength (DIN52910)	N/mm <sup>2</sup>	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/mm²	± 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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