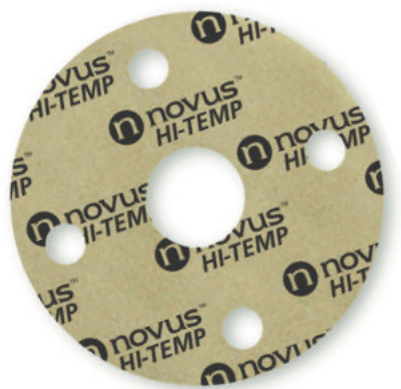


Novus Hi-Temp



Description

Novus Hi-Temp consists of phlogopite mica paper impregnated with a high quality silicone binder. 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.

Colour - Gold

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

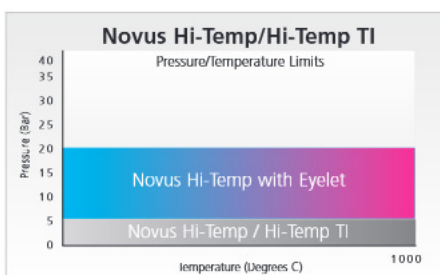
Availability

In rolls or sheets with or without tanged insert (1200 x 1000mm) as winding strip for spiral wound gaskets

TYPICAL PHYSICAL PROPERTIES

Thickness	mm	0.1 - 3
Density (IEC371-2)	g/cm ³	1.9 (1.75*)
Tensile Strength (DIN52910)	N/mm ²	20
Compressibility (ASTM F36J)	%	25 (30*)
Recovery (ASTM F36-J)	%	35 (20*)
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
Binder		Silicon Resin
Resin Content	%	± 10

*The measurement was performed with a pegged steel insert.



Novus Compressed Fibre Jointing

Options

Anti -Stick

Novus materials are available with an anti-stick finish. The coating is specially formulated to be environmentally safe without compromising gasket removal from the flange. Anti-stick finish is available as standard on our premium grades Novus 10, Novus 34 and Novus 49 (Graftec).

Wire Reinforced

Novus materials are available with wire reinforcement for applications requiring high compressive strength or where thermal cycling is severe. Carbon Steel wire is the standard reinforcement.

Eyelets

Cut gaskets manufactured from Novus material are available with eyelets. The eyelet is fitted on the inner diameter of the gasket and prevents fluid contamination as well as aiding sealability. The standard material for the eyelet is 316L stainless steel but other materials are available on request.

PTFE Envelopes

Cut gaskets fitted with PTFE envelopes offer excellent chemical resistance under moderate service conditions, allowing the use of Novus materials in fluids which would normally be unsuitable.

Availability

For large volume one size gaskets we can also supply the materials in coils, increasing material yield and reducing production time. Contact our Technical Team for details.

Private Branding

Our materials can be supplied in private brand and colour formats to ensure your company or customer is accorded recognition. Contact our Technical Team for details.

Standard Sheet Sizes

Novus sheet materials are available in standard and non-standard sheet sizes. Standard sheet sizes are available as follows, for non-standard sheet sizes please contact our Technical Team:

Standard sheet size = 2.0m x 2.0m, 2.0m x 1.5m, 2.0m x 1.0m, 1.5m x 1.5m, 1.5m x 1.0m

Standard roll sizes = up to a maximum size of 6.0m x 2.0m.

Standard thicknesses

Novus 10, Novus 30, Novus 49 (Graftec),

Novus 45 = 0.4mm to 6.0mm

Novus 34 = 0.25mm to 6.0mm

Novus 26, Novus HDS 1 = 0.5mm to 6.0mm

Novus 48 (Acid), Novus 28 = 0.4mm to 3.0mm

Novus Hi-Temp = 0.1mm to 3.0mm