

N O V A T E X P T F E P R O D U C T S



Manufacturers and distributors of **sealing and jointing products**



www.novussealing.com

Novus Sealing manufactures and trades a variety of high quality products designed for fluid sealing applications in the industrial and manufacturing sectors.

Our company ethos is to provide honesty, reliability and a high level of service and dependability through all aspects of our business, adding value to our products and ensuring we sustain a competitive edge.

Over the years we have enhanced our technical facilities to develop more products and provide guidance and training programmes for some of the world's largest chemical and petrochemical plants. We have our own dedicated Research & Development team who ensure high quality technical support for all our products. We currently look to provide a balanced mix of quality sealing products with a warmth of service.

Novus Sealing continues to invest in Quality and Environmental systems such as ISO 9001, ISO 14001, ISO 18001 and TS16949.

Our products are traditional in function but our outlook is progressive and evolving.

Contents

This brochure outlines our products and services. For more information on any of the areas covered please feel free to contact our sales or technical support teams who will be happy to assist you.

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The gasket range to suit every application in all kinds of industries

Novatex Gasket Sheet

The **Novatex** family of gasket sheets are produced by a proprietary expansion process which generates a highly fibrillated microstructure. This unique structure maximises performance predictability and stability while minimising creep and cold flow.

Novatex Gasket Sheet has an unlimited shelf life and will not become brittle, age or otherwise deteriorate in the application. **Novatex** is unaffected by UV, Ozone and Corona.

Novatex can be hand or die cut and is easily removed from flanges due to the non-sticking nature of PTFE.

Features

- Non-contaminating, non-toxic
- 100% Pure PTFE
- Meets FDA requirement (FDA 21 CFR177, 1550)
- Withstands a range of temperatures from -196°C to +260°C
- Easy to cut and install
- Low compressive load to seal
- Seals rough or damaged flanges
- Good sealability
- Highly compressible
- Resistant to creep and cold flow
- Unaffected by most chemicals ph range 0-14
- Uniform and highly fibrillated microstructure in multi-direction

Novatex is very soft and can be highly compressed with relatively light torque. It can be applied in FRP, Porcelain, Plastic and Glass lined piping or vessels.

Novatex is very strong and tough, it can also withstand high compressive loads without affecting its sealing capability.



Applications

Can be used in many types of sealing applications including:

- Chemical manufacturing
- Food equipment manufacturing
- Pharmaceutical plants
- Petrochemical plants
- Steel manufacturing
- Distilling
- Food and beverage processing
- Pulp and paper processing
- Power generation
- Marine

Novatex Typical Properties

A	Compressibility (F-36)	68%
S	Recovery (F-36)	12%
T	Sealability (F-37-8)	0.00ml/hr (Fuel A) 0.02 ml/hr (Nitrogen)
M	Creep Relaxation (F-38)	32% @ 100°C 16% @ 24°C
Temperature Limit		-196°C to +260°C
pH Limit		pH 0-14 Except molten alkali metals and elemental fluorine
FDA		Suitable
Flammability		Will not burn
Bacterial Growth		Will not support
Sheet Size		1500mm x 1500mm
Thickness		0.5mm, 1mm, 1.5mm, 3mm, 6mm
Tolerance		1.5mm ± 0.5mm, 3mm ± 0.25mm
Specific Gravity		0.85 ± 0.04

This data is for general reference only and should not be used as the sole means of selecting **Novatex**.

Novatex Joint Sealant

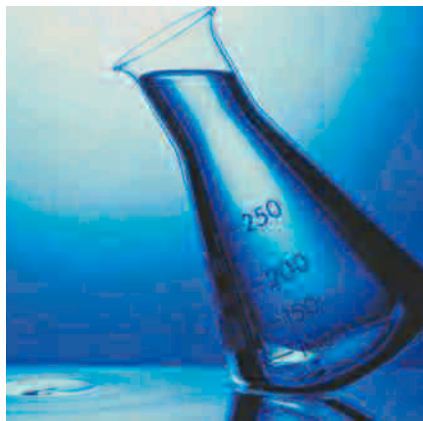
Novatex Joint Sealant looks and feels different from other joint sealant products. It is smooth and flexible with an exceptionally smooth texture and density. Under the surface is a microscopic structure that makes this remarkable material one of the strongest, most versatile sealants available today.

Novatex Joint Sealant has high tensile strength, flexibility and tough properties. It is an ideal economic sealing gasket with a superior performance even in highly corrosive applications. Its resistance to chemical and thermal attack is excellent.



Novatex High Performance

- 100% Expanded PTFE
- Temperature range from -196°C to +260°C
- Unaffected by common chemicals pH range 0-14
- Non-contaminating, non-toxic
- FDA suitable (FDA21 CRR177.1550)
- Will not age or harden in service
- Extremely strong; pressure range from full vacuum to 3000psi



Standard Sizes		Size Selection Reference		Non-Standard or Special Flanges	
Size	Standard Length	150 - 300 ANSI	Size Required	Sealing Width	Size Required
3mm	30 Metres	1/2" - 3/4"	3mm	1/8" - 1/4"	3mm
5mm	20 Metres	1" - 1.1/2"	5mm	5/16" - 3/8"	5mm
7mm	15 Metres	2" - 3.1/2"	7mm	7/16" - 5/8"	7mm
10mm	8 Metres	4" - 6"	10mm	3/4" - 1"	10mm
12mm	5 Metres	8" - 16"	12mm	1.1/8" - 1.1/2"	12mm
14mm	5 Metres	18" - 20"	17mm	1.5/8" - 2"	17mm
17mm	5 Metres	24" - 36"	20mm	2" - 2.1/2"	20mm
20mm	5 Metres	36" - 60"	25mm	2.1/2" - 3"	25mm
25mm	5 Metres	60" and above	50mm	3" and above	50mm

Applications

- Flanges
- Fume Ducts
- Concrete Lids
- Glass Joints
- Heat Exchangers
- Fibreglass Reinforced Plastic Vessels
- Pump and Compressor Housing Flanges
- Manhole covers
- Ceramic Joints
- Hydraulic and Pneumatic Systems
- Water Systems
- Ventilation Ducts and Fan Housings

In short practically all industrial applications requiring a long life, trouble free seal

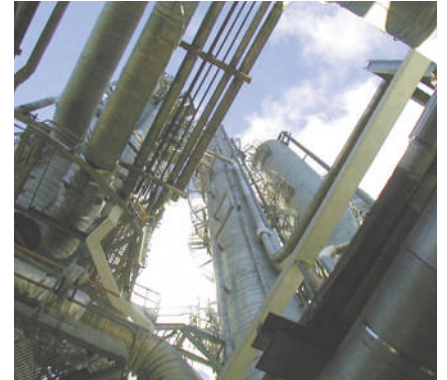
Features

Quick and simple installation

- **Novatex** can be used irrespective of shape of sealing area
- Easy to install, an adhesive strip makes installation simple, quick and easy
- No time wasted in cutting gaskets

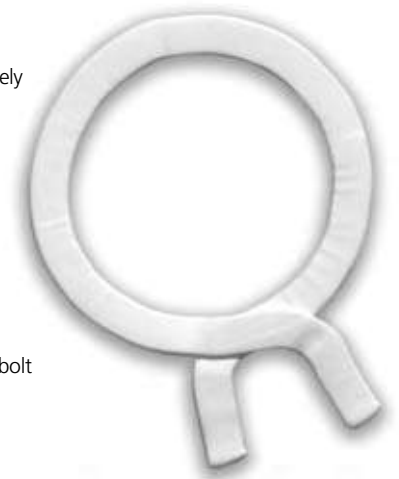
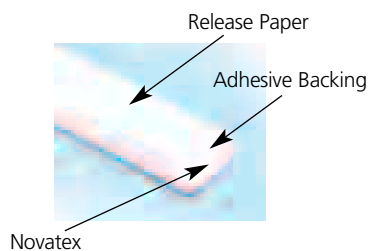
Reduced stock cost

- Minimum inventory required
- The chemical and thermal resistance of **Novatex** eliminates the need to stock a large variety of different materials - only one product for all applications.



Installation

1. Choose **Novatex Joint Sealant** that is approximately 1/3 to 1/2 the width of the sealing face
2. Clean flange, removing scale, debris, grease, dirt and other foreign materials
3. Peel off the release paper and apply it around the flange inside the bolt circle
4. Overlap ends approximately 3/4" at a bolt hole
5. Fit the flange to the component and tighten each bolt uniformly (follow standard tightening sequence)



Novatex Gasket Tape

Novatex Gasket Tape looks and feels different from other gasket tape products. It is soft and flexible with an exceptionally uniform density. Under the surface is a microscopic structure that makes this remarkable material one of the strongest, most versatile sealants available today.

Lasts longer, saves time and cost.

Novatex is very versatile

- Excellent for use on glass lined, plastic and FRP plastic flanges
- Can be used on odd shaped flanges
- Can be used as an insulating tape
- Excellent for repairing worn spiral wound and metal gaskets
- Eliminates the need for etched PTFE
- Wider widths are useful for volume cutting of gaskets
- Easy to use, will not unravel or split and is simple to install

Applications

Novatex Gasket Tape can be used wherever a thin gasket is needed and wherever an FDA suitable material is required. Industries currently using **Novatex Gasket Tape** include:

- Chemical Manufacturing and Transporting
- Distilling
- Food Equipment Manufacturing
- Food Processing
- Heating and Air Conditioning
- Automotive Paint Booths
- Petrochemical Production
- Pharmaceutical
- Power Generation
- Pulp and Paper
- Pumps and Valves



Novatex Gasket Tape for dependable performance

- 100% expanded virgin PTFE
- Withstands a wide range of temperatures from -196°C to +260°C
- Pressure from full vacuum to 3000psi
- Unaffected by common chemicals, pH range 0-14
- Soft and compressible under low bolt loads
- No creep or cold flow
- Non-contaminating, non-toxic, silicone free
- FDA suitable (FDA 21 CFR177.1550)
- Helps meet tough EPA standards for fugitive flange emissions

Standard and custom sizes for any need

Novatex Gasket Tape standard sizes are listed below. Lengths are available in either 15 or 30 metres with the exception of 200mm wide (1.5 to 7 metres). All sizes include a full paper covered self-adhesive backing. Custom sizes are available for special applications.

Standard Sizes	Width Selection									
	Thickness	12mm	20mm	25mm	40mm	50mm	75mm	100mm	150mm	200mm
0.25mm	●	●	●	●	●	●	●	●	●	●
0.40mm	●	●	●	●	●	●	●	●	●	●
0.50mm	●	●	●	●	●	●	●	●	●	●
0.80mm	●	●	●	●	●	●	●	●	●	●
1.00mm	●	●	●	●	●	●	●	●	●	●
1.60mm	●	●	●	●	●	●	●	●	●	●
3.00mm	●	●	●	●	●	●	●	●	●	●

Novatex Valve Stem Packing

Novatex Valve Stem Packing is made from 100% expanded PTFE. This highly pliable material will conform to worn stems and packing glands to help eliminate the need for costly downtime and repair. The unique properties of PTFE assure valve operation even after long periods of inactivity.

Novatex... The right choice for longer service life

Because **Novatex** uses 100% PTFE with no fillers or additives, **Novatex** Valve Stem Packing will not harden or dry out in service and will normally out-live the life of the valve.

Novatex Valve Stem Packing for dependable performance

- 100% expanded virgin PTFE
- Withstands a wide range of temperatures from -196°C to +260°C
- Unaffected by common chemicals, pH range 0-14
- Non-contaminating, non-toxic
- FDA suitable
- Will not age, harden, shrink or dry out in service
- Withstands the pressure limits for which the valve was designed
- Adds service life to old and worn valves
- Valves still operate after long periods of non-use
- Helps meet tough EPA requirements for fugitive emissions

Novatex Valve Stem Packing is available in the sizes listed below. Please call Novus Sealing for custom sizes for non-standard valves and special applications.

1.6mm x 15M	8.0mm x 2M
2.4mm x 15M	9.5mm x 2M
3.2mm x 8M	12.0mm x 4M
4.0mm x 8M	16.0mm x 8M
4.8mm x 8M	19.0mm x 8M
5.5mm x 8M	25.0mm x 4M
6.5mm x 4M	
7.0mm x 3M	



Novatex Valve Stem Packing for a broad spectrum of applications

Industries currently using **Novatex Valve Stem Packing** include:

- Chemical Manufacturing
- Distilling
- Food Equipment
- Food and Beverage Processing
- Petrochemical
- Pharmaceutical
- Pulp and Paper
- Steel Manufacturing

Novatex Valve Stem Packing Easy installation

Novatex Valve Stem Packing is easy to install. Follow these simple steps to create a perfect fitting, high density packing that conforms to fill any irregularities or voids within the stuffing box.

1. Isolate the valve pressure and remove old packing from the stuffing box
2. Select the largest Novatex Valve Stem Packing that will fit by hand into the stuffing box
3. Estimate the length needed to fill the gland and cut one continuous length
4. Wind the packing around the stem and push into stuffing box
5. Compress by tightening the gland nut



Novus Sealing and our distributors are fully committed to ensuring our customers throughout the world receive the highest level of quality and technical support for our products and services. Our technical specialists can provide expertise on all issues associated with sealing performance.

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