



GORE® Joint Sealant



Gasket for Large Diameter Flanges

THE MOST RELIABLE JOINT SEALANT

GORE® Joint Sealant, the original form-in-place gasketing, is engineered for the reliable sealing of large, complex or damaged flanges. Made from 100% expanded PTFE, this gasketing material, when compressed, forms a thin yet strong, durable gasket that is highly resistant to creep and cold flow. The seal remains tight and rarely needs retorquing. And, installation is easy — just peel off the adhesive backing, apply to the surface, and overlap the ends.

GORE® Joint Sealant minimizes the potential for leaks, process disruption, and lost production. It reduces maintenance time, safety risks, and the possibility of catastrophic failure. It is the most reliable means of optimizing long-term system performance.

From the inventors of expanded PTFE, GORE® Joint Sealant is backed by over thirty-five years of industry success, ongoing improvements, and technical support.

TECHNICAL DATA

MATERIAL

100% expanded PTFE

TEMPERATURE RANGE

-450°F to +600°F (-268°C to +315°C)

OPERATING PRESSURE

Vacuum to 3,000 psig (200 bar)

CHEMICAL RESISTANCE

Resistant to all common chemicals in 0-14 pH range, except molten alkali metals and elemental fluorine.

PHYSIOLOGICAL SAFETY

FOR INDUSTRIAL USE ONLY. Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.

TENSILE STRENGTH

3,500 psi (ASTM F-152)

COMPRESSIBILITY

55-80% (ASTM F-36)

SEALABILITY

0.13 ml/hr (ASTM F-37-B [30 psig/2 bar-air]) M = 1.5; Y = 2,500 psi

CREEP RELAXATION

40% (ASTM F-38)



KEY FEATURES

- 100% expanded PTFE
- Chemically inert, temperature-resistant
- Ideal for large, complex or damaged surfaces
- No wasteful scrap
- Resistant to creep and cold flow

KEY BENEFITS

- Reliable sealing performance
- Easy to install
- Outstanding versatility
- Supports process optimization

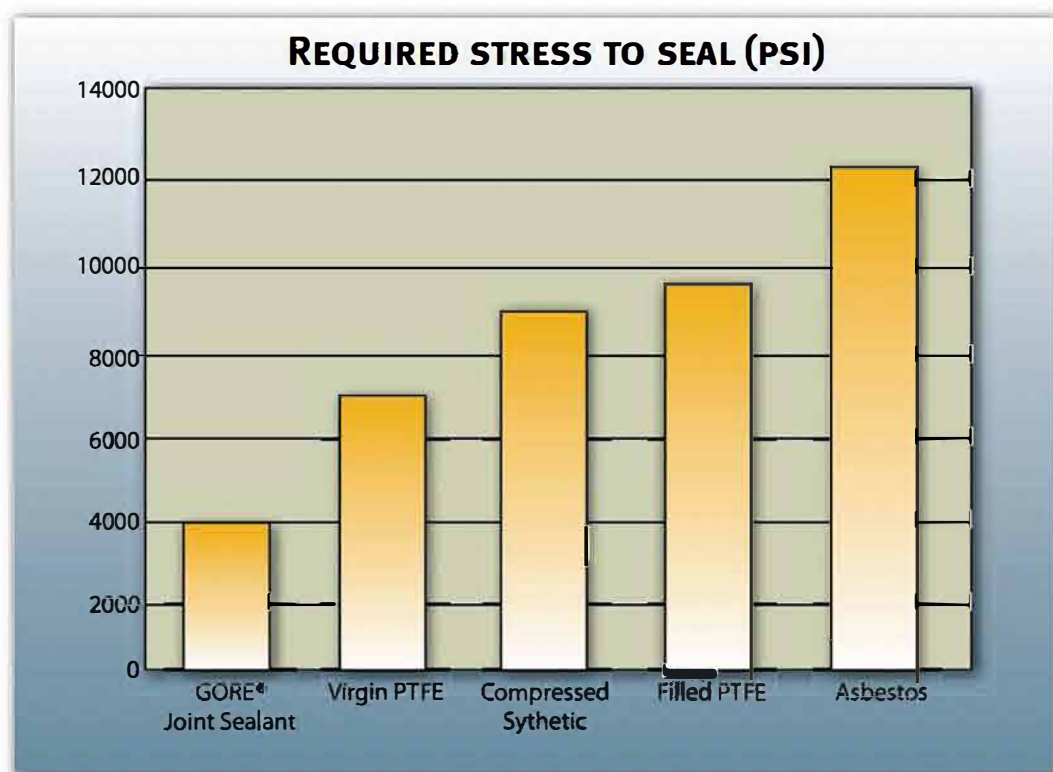


GORE® Joint Sealant



LOW STRESS TO SEAL

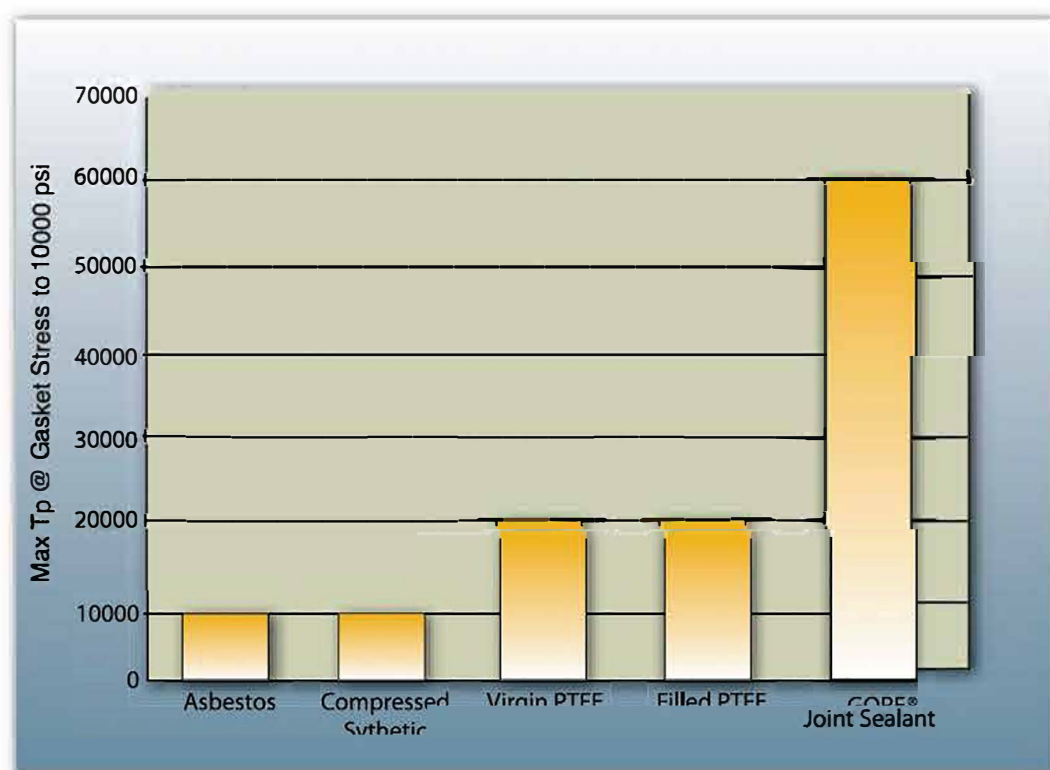
Since GORE® Joint Sealant has a very low stress-to-seal requirement, it makes an effective gasket on more delicate assemblies such as plastic, FRP or graphite. And, GORE® Joint Sealant requires less stress to seal on rough flange surfaces.



[ASTM F-37-B, 30 psig (2 bar) internal pressure (air), 500 RMS surface finish]
GORE® Joint Sealant requires less stress to seal than other typical gasketing materials.

TIGHT SEAL

Soft and conformable, GORE® Joint Sealant forms a thin, wide seal when compressed in the flange. The conformability of the material allows the gasket to easily fill in all the areas of micro-deviation across the flange surface, for an incredibly tight seal.



SOURCES: 1992 NPRA Bolted Joint Improvements Through Gasket Performance Tests, J. Payne; MTI Publication #36; WRC Bulletin #391; HOTT tests from the TTRL.

Supplied By:



800-543-5350 - sealingspecialties.com

All technical information and advice given here is based on our previous experiences and/or test results. We give this information to the best of our knowledge, but assume no legal responsibility. Customers are asked to check the suitability and usability in the specific application, since the performance of the product can only be judged when all necessary operating data are available. Specifications are subject to change without notice. Gore's terms and conditions of sale apply to the purchase and sale of the product.

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AVAILABLE SIZES

Size	1/8"	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
Feet								
Spool Length*								
15'								
25'								
30'								
50'								
75'								
100'								
150'								
250'								
500'								
750'								
1000'								

* Special lengths available upon request

OUTSTANDING VERSATILITY

GORE® Joint Sealant withstands temperatures from -450° F to +600° F (-268°C to +315°C), seals internal pressures from full vacuum to 3,000 psig (200 bar) with a tested P x T factor of 1.8 million, and is unaffected by most chemicals (except molten alkali metals and elemental fluorine). It's ideal for cryogenic applications. You can use it just about anywhere. And, it lasts indefinitely, when used within its operating parameters.

QUALITY ASSURANCE

All manufacturing and quality control processes for GORE® Joint Sealant conform to ISO 9001.

For detailed selection criteria, technical information, installation guideline and the complete listing of local sales offices, please visit gore.com/sealants.

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