GORE™ Joint Sealant



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 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 thirty 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 3000 psig (200 bar)

Chemical Resistance

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

Tensile Strength

3,500 psi (ASTM F-152)

Compressibility

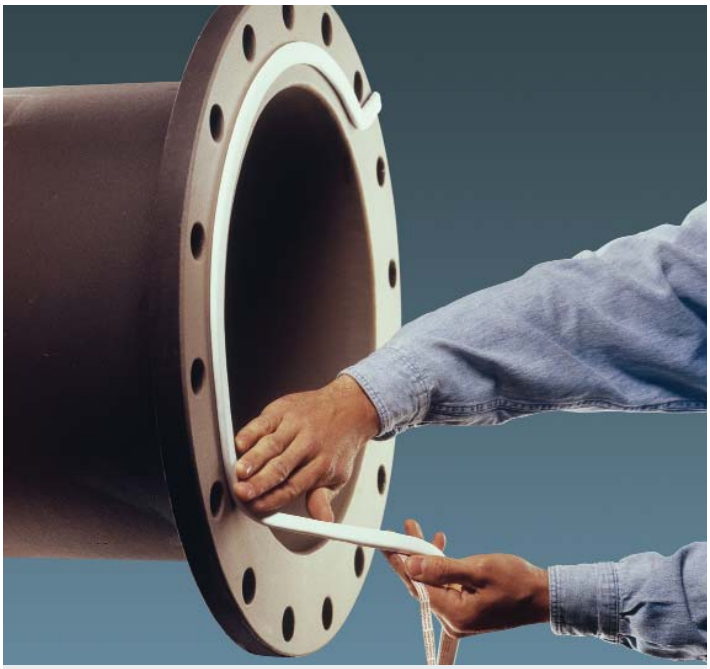
55-80% (ASTM F-36)

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

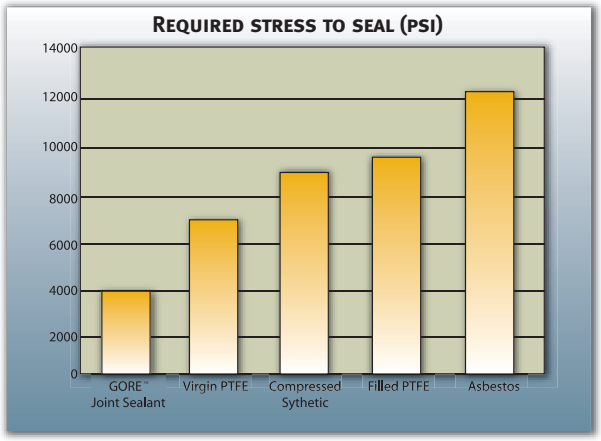
- Reliable sealing performance
- Easy to install
- Outstanding versatility
- Supports process optimization

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.

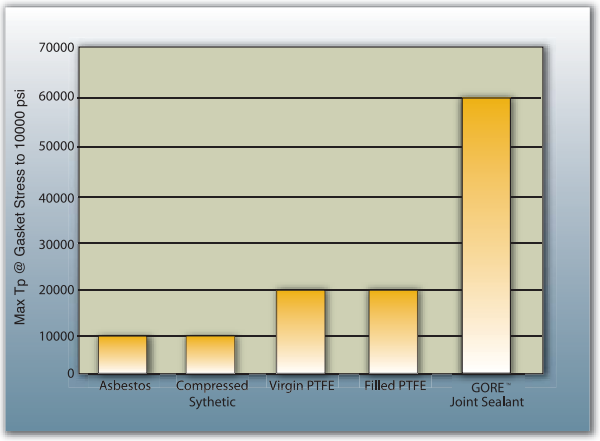


[ASTM F-37-B, 30 psig (2 bar) internal pressure (air), 500 RMS surface finish]

GORE™ joint sealant requires less stress to seal than other typical gasketing materials.

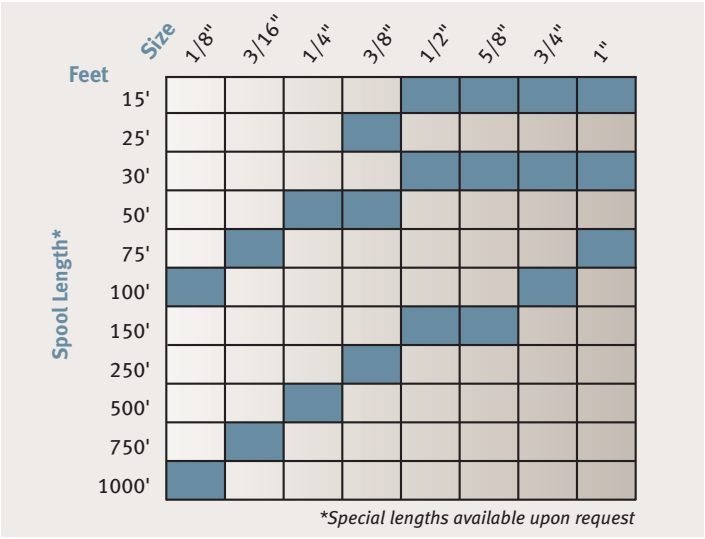
Tight Seal

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.*

Available Sizes



**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 and is FDA/USDA-suitable for use in food processing and pharmaceutical industries. You can use it just about anywhere. And, it lasts indefinitely, when used within its operating parameters.

Further Information/Ordering

Detailed selection criteria, technical assistance, and installation guidelines are available from your local authorized Gore distributor or the application engineers at W. L. Gore & Associates, Inc. **800-654-4229**. Visit us at **www. gore.com/sealants**.

Quality Assurance

All manufacturing and quality control processes for GORE™ joint sealant conform to ISO 9001.

Supplied By:

W. L. Gore & Associates, Inc.
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Phone: 410.392.3200 • Fax: 410.392.4817

gore.com/sealants

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