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
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.

Available Sizes

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.