



GORE TriGuard[®]

GASKET



Gasket for Fragile Flanges

SEAL FRAGILE FLANGES RELIABLY

GORE[®] TriGuard[®] gaskets are used to seal fragile pipe flanges with low bolt load. Unlike other gaskets, they seal tight and stay tight, even with varying flange conditions.

Designed for low stress-to-seal services such as FRP and glass-lined steel flanges, TriGuard[®] gaskets are ideal for highly aggressive fluids, including chlorine and monomers. Unaffected by even the most aggressive chemicals, TriGuard[®] gaskets combine all the properties of expanded PTFE while providing reliable sealability of the most fragile flanges.

Look to GORE[®] TriGuard[®] gaskets for superior performance in three important areas: conforming to irregular surfaces, helping to protect flanges, and seal reliability. Backed by over 30 years of manufacturing and technical experience, rely on GORE[®] gasketing when you need the highest level of dependability.

TECHNICAL DATA

MATERIAL

100% expanded PTFE, with multi-directional strength.

TEMPERATURE RANGE

-450°F to +600°F (-268°C to +315°C)

CHEMICAL RESISTANCE

Resistant to all media in pH 0-14 range, except molten alkali metals and elemental fluorine, particularly at elevated temperatures and pressures.

OPERATING PRESSURE

Vacuum to 1,000 psig (68 bar)

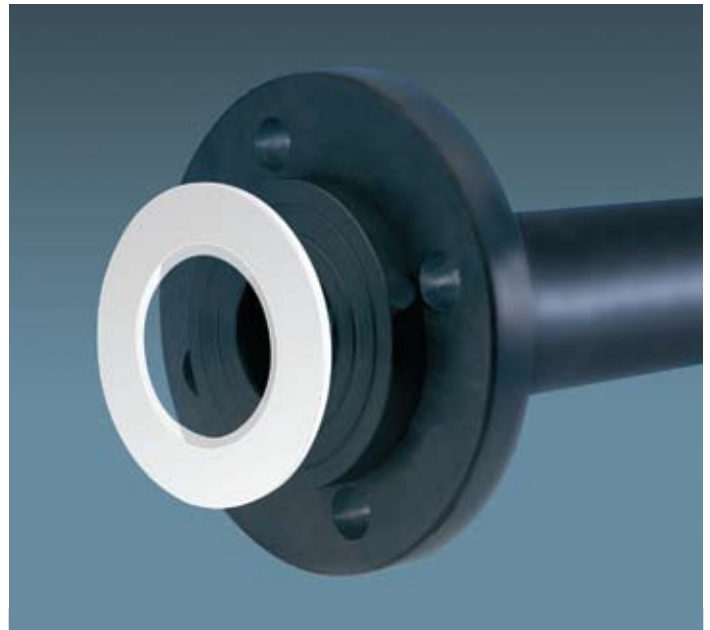
STABILITY

Not subject to aging, and can be stored indefinitely.

PHYSIOLOGICAL SAFETY

Product is made from raw materials listed by the US Food & Drug Administration (FDA) in 21 CFR Parts 175 – 186 for PTFE resins, adhesives and inks.

We do not manufacture our products according to current Good Manufacturing Practice (cGMP) requirements for food contact substances or drug packaging materials.



KEY FEATURES

- Made from 100% multi-directionally expanded PTFE
- Highly conformable
- Seals at low bolt loads
- Chemically inert & temperature resistant
- High dimensional stability & creep resistance

KEY BENEFITS

- Seals highly permeable & aggressive fluids
- Protects weak & fragile flanges from cracking
- Superior sealing reliability & long gasket life
- Lowers total sealing costs



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COMPRESSIBILITY

55% (ASTM F-36)

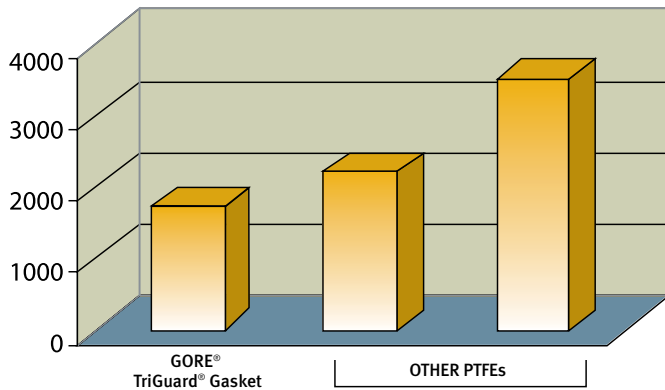
SEALABILITY

Y value = 1,500 psi

m factor = 2.4

GORE® TriGuard® gaskets have the lowest Y value of any PTFE-based gasket. What is important to users is that less torque on bolts means less chance of cracking fragile flanges. With a lower Y value, TriGuard® gaskets provide a tighter seal at lower bolt loads than other ePTFE and PTFE gaskets.

Y-VALUE (PSI)



INSTALLATION

Tighten to the manufacturer's recommended torque load for the piping system.

Supplied By:

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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RESISTANCE TO DIFFUSION

Processors of aggressive chemicals must meet stringent requirements for leakage. They need to be confident that there is no start-up leakage. Plus, they must maintain a tight seal to assure safety performance and minimize production loss. The "bubble test", a commonly used measure of sealability in the fluid sealing industry, shows that GORE® TriGuard® gaskets seal at the low loads required in fragile flange applications.

AVAILABILITY

| Gasket Stress (psi) | AIR PRESSURE | | |
|---------------------|----------------|----------------|----------------|
| | 30 psi (2 bar) | 60 psi (4 bar) | 90 psi (6 bar) |
| 1500 | NO LEAK | NO LEAK | NO LEAK |
| 1000 | NO LEAK | NO LEAK | NO LEAK |
| 500 | NO LEAK | NO LEAK | NO LEAK |
| 250 | NO LEAK | NO LEAK | NO LEAK |

1/2" through 24" ANSI ring and full face gasket sizes available. Thicknesses of 1/16", 1/8" and 1/4". Special sizes available on request.

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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