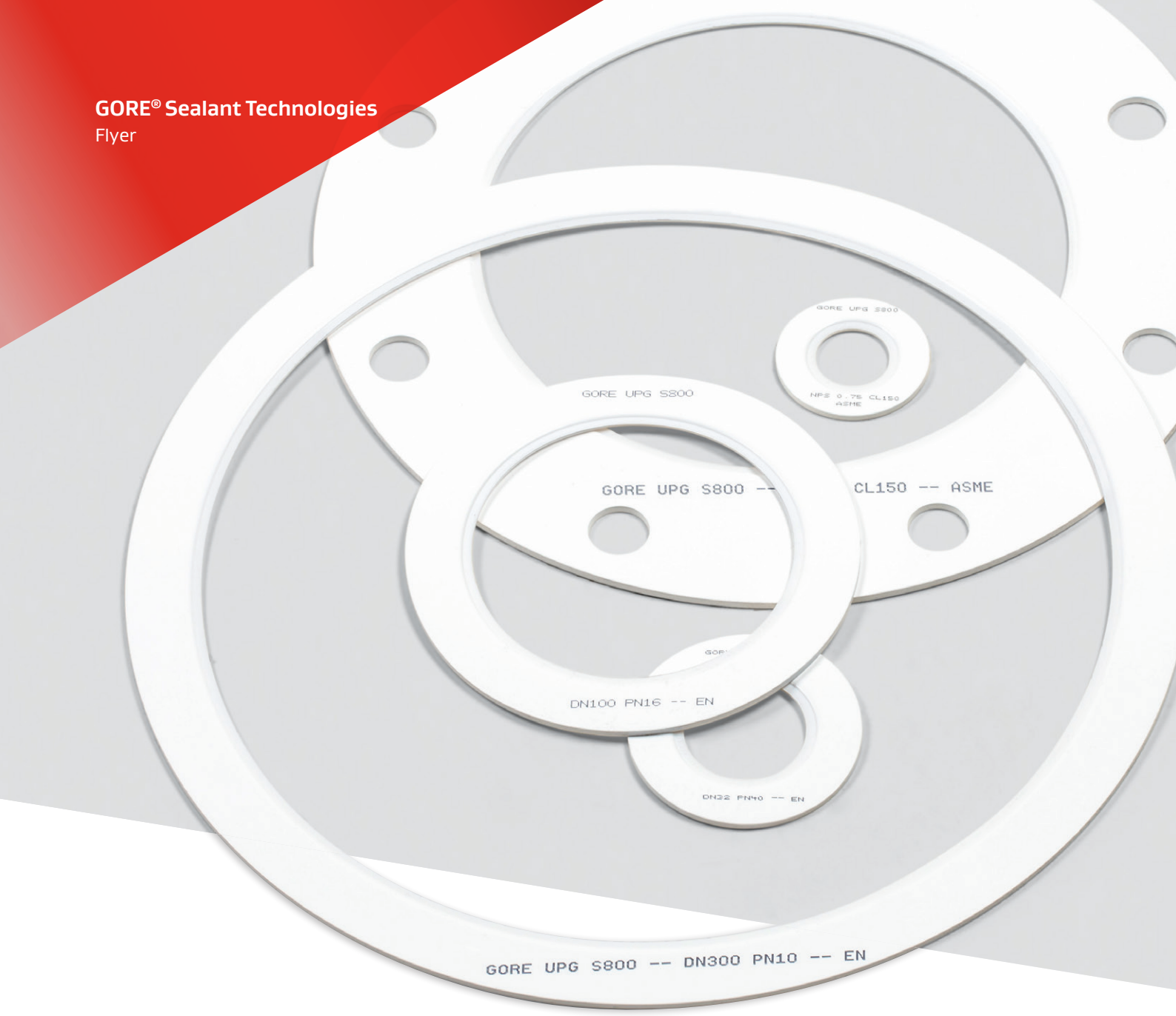
GORE® Sealant Technologies
Flyer



GORE® UNIVERSAL PIPE GASKET (STYLE 800)

Reduce complexity, cost and emissions while increasing reliability and safety

Complexity creates risks and costs

Selecting, stocking, installing and maintaining industrial gasketing means navigating a complex maze of challenges.

The risk of failure can have significant consequences for personnel, the environment and business operations.

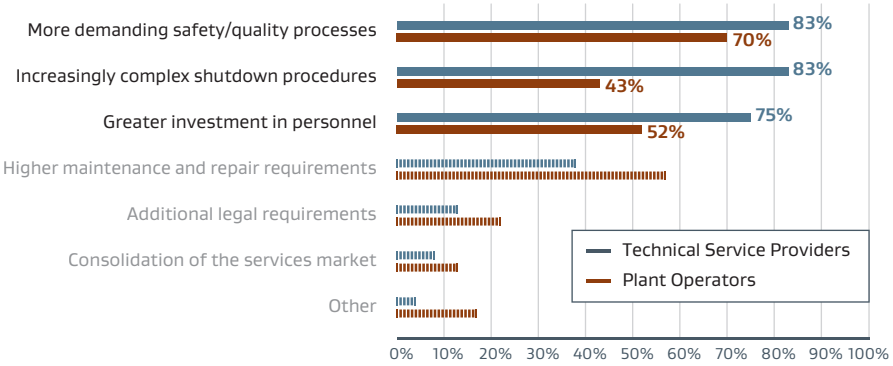
Within this complex environment, manufacturing and maintenance engineers are tasked with identifying “best practice” solutions that address a range of needs:

- Cost-containment and productivity goals
- Compliance with safety/environmental requirements
- Harmonization of solutions to seal steel, fiber reinforced plastic (FRP) and glass-lined steel (GLS) flanges
- Reliably sealing processes with media ranging from strong acids and alkalis, to polar and non-polar solvents as well as food contact applications (unprinted version only)*
- Accommodating varied maintenance cycles

Together, improving life

The demands on chemical processing operations have continued to become more complex and more costly. GORE® Sealant Technologies offers cost-effective solutions that can help simplify operations and streamline inventory.

What is driving costs up?



Source: InfraServ Knapsack (2016) — Praxisbericht "Erhöhung der Sicherheit in Anlagenstillständen"

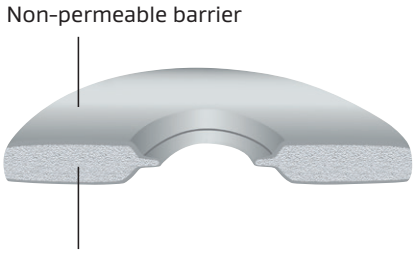
One simple solution reduces risks and costs

The GORE® Universal Pipe Gasket (Style 800) is the single, easy solution to the challenges of achieving and maintaining reliable seals in a wide variety of industrial flange and process media combinations. Reducing the chance of premature seal failure can enhance operational productivity and cost effectiveness, while providing greater peace of mind about safety and environmental concerns.

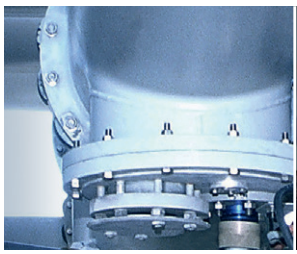
Proprietary Gore technology makes the difference

GORE® Universal Pipe Gasket (Style 800) combines two patented elements: a conformable, creep-resistant core and a non-permeable barrier that creates a tight seal. Both are made of 100% Gore expanded PTFE (ePTFE), which outperforms ordinary (filled or skived) PTFE by:

- Creating a tight initial seal
- Maintaining a reliable long-term seal



Reliably seals multiple types of flanges


Steel


GLS

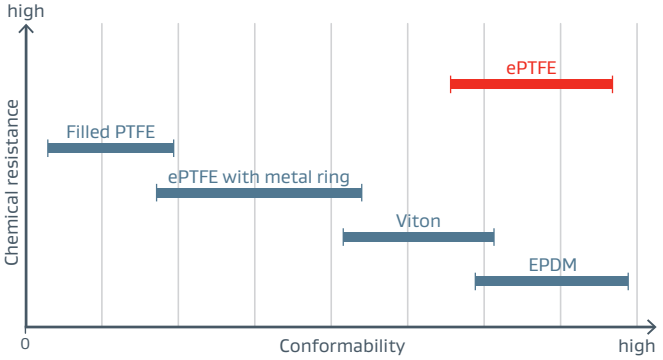

FRP

Premium Performance, Greater Versatility

Outperforms other gasketing materials

This gasket's combination of chemical resistance and conformability is unmatched by other gasketing materials.

- Chemically inert to virtually all acids, alkalis and solvents, except elemental fluorine and molten alkali metals
- Highly conformable, to effectively seal even old, imperfect flanges — avoiding refurbishment costs and downtime
- Creates a reliable seal that starts — and remains — leak-tight

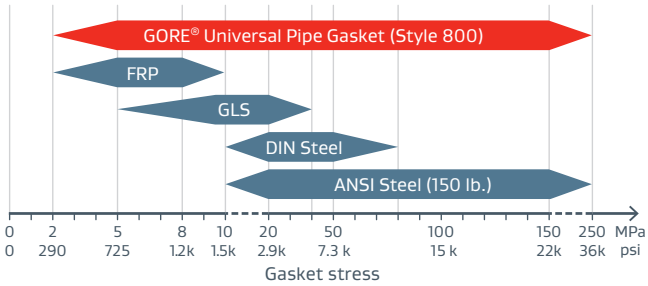


The best of both worlds: highly resistant AND highly conformable

One gasket, many applications

GORE® Universal Pipe Gasket (Style 800) can replace multiple gasketing materials in multiple flange-sealing applications.

- A single gasketing solution streamlines ordering, inventories, and installation — no risk of selecting the "wrong" gasket material
- Low stress-to-seal, for GLS and FRP piping systems
- Strength and durability for steel systems

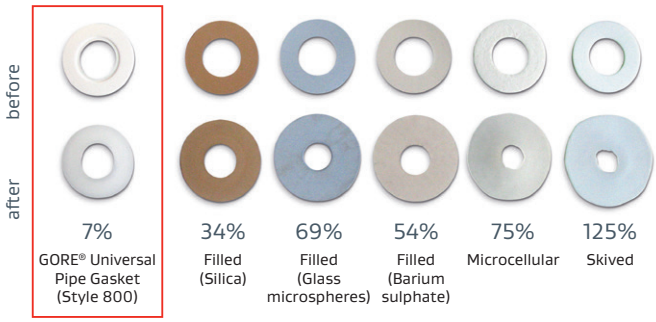


Reliably seals across the full range of flange stresses

Long-term reliable sealing

GORE® Universal Pipe Gasket (Style 800) is highly dimensionally stable, resisting creep[1] better than other gasketing materials made of PTFE.

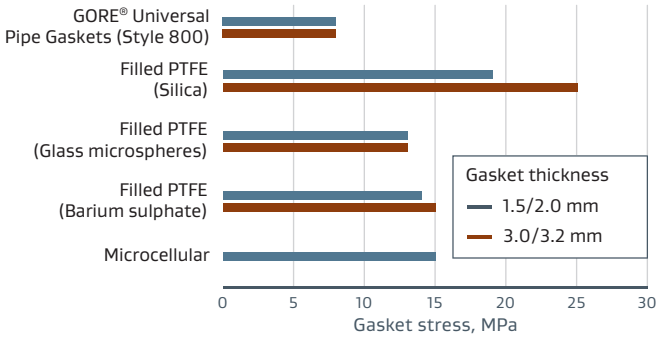
- More reliable long-term seal for safety and environmental peace of mind
- Less frequent downtime for routine maintenance improves process productivity
- Reduced risk of unplanned downtime and associated high costs



Superior creep resistance vs. alternatives
34.5 MPa (5000 psi) load, 230 °C (446 °F), 15 minutes

Reduced emissions

When operating at elevated temperatures, GORE® Universal Pipe Gasket (Style 800) is significantly more gas-tight than other products.



Source: www.gasketdata.org – May 2018, complete test conditions available.

Greater leak resistance at higher temperatures
Stress to seal at 40 bar helium to 0.01 mg/m/s $Q_{minL0.01}$

[1] Creep is the amount of dimensional change a gasket under load exhibits over time.

Product Features

Broad applicability across flange standards
Gore offers a wide range of industry-standard dimension options to reliably seal diverse flange materials (steel, FRP and GLS flanges):

- Select full-face or ring-type gaskets
- Choose from a full range of EN and ASME sizes (DN 15–800; NPS 1/2"–32")
- Specify Standard ID, Glass-Lined Steel ID or Nominal Pipe Size "Old Standard" ID
- Custom sizes are also available — contact your Gore representative to discuss your needs.

Identification on every part
Every genuine GORE® Universal Pipe Gasket (Style 800) is clearly identified, so it's easy to pick the right gasket for the job.



Clearly printed on every gasket is:

- Gore manufacturer identifier
- UPG (S800) product identifier
- Gasket size & pressure classification
- Governing standard (example ASME, EN)
- Standard or special inner diameter (ID) if applicable

Performance engineered for key applications
Especially in critical and hazardous service, close is not good enough. So in addition to offering gaskets dimensioned for major piping standards used globally — ASME, EN, JIS — GORE® Universal Pipe Gasket has additional options for the flanges often used in highly-aggressive chemical applications:

- GLS ID: Gore offers a product line with the inner diameter (ID) optimized for glass-lined steel flanges for both ASME and EN standards. This offers more complete protection for glass surfaces than standard dimension gaskets, while still accommodating the ID rounding of the glass surface. It's the best choice for GLS flanges.
- NPS ID: Nominal pipe size ID (also known as "Old Standard") has the smallest ID, and is required for the ductile iron piping systems typically used in some strong acid applications. It's also a good selection for several polymer lined piping systems. Until Gore's introduction of GLS ID, this was the best available option for ASME GLS pipe flanges and is still an acceptable option.

Proven reliable performance

GORE® Universal Pipe Gasket (Style 800) has provided outstanding sealing performance in millions of flanges, even those using the harshest process media, in the most challenging industrial environments.

With more than 50 years experience in sealing technologies and a portfolio of innovative and top-performing gaskets, seals and fluid-handling products, we're ready and able to help you address your toughest sealing challenges.

Discover more at gore.com/upg

***Unprinted GORE® Universal Pipe Gasket (Style 800) conforms to the US FDA 21CFR. Declaration of Compliance is available upon request.**

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