



# Sealant Technologies

*For Fluid Sealing and Transport*



# GORE TECHNOLOGY

SOLVING THE MOST CHALLENGING SEALING PROBLEMS.



*For more than 40 years, Gore's Sealant Technologies Group has developed innovative PTFE gaskets, seals and other fluid-sealing products designed to meet both standard and unique sealing and pumping applications.*

## Fluid Sealing Leadership

For more than 40 years, the Sealant Technologies Group of W. L. Gore & Associates has fostered a solid knowledge of factors that influence the sealing of piping systems, vessels, pumps and valves. Our singular focus has resulted in the development of innovative and top-performing gaskets and packings. We've also established a comprehensive technical services program, specially designed to help customers determine the best solutions for their toughest sealing applications.

## Products that Seal

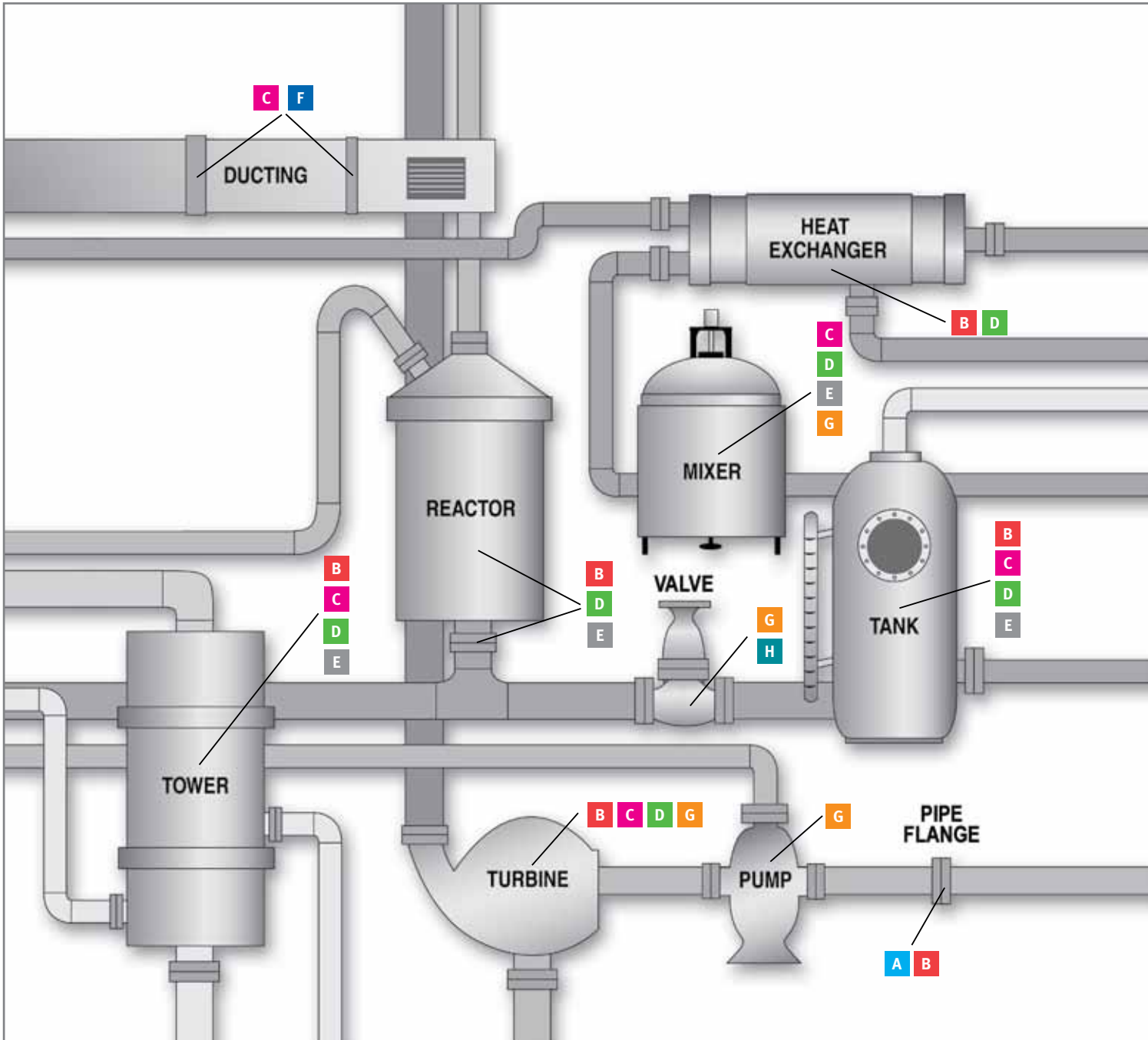
Because of its unique combination of properties, GORE® expanded PTFE virtually eliminates the drawbacks of conventional PTFE sealing and fluid handling products. Our gasket configurations provide solutions for flanges that are fragile, warped or misaligned. We also enable users to standardize one gasket material across a wide range of process piping systems. Our packings are among the highest-performing, most universal products on the market today.

## Global Company ... Global Commitment

We're a creative technology company employing approximately 10,000 associates, in more than 30 countries around the world. Working in a distinctive company culture that encourages innovation, commitment and communication, Gore engineers have created thousands of patented and proprietary inventions. Each product is designed to be the best-performing, highest-quality product solution in its class.



# APPLICATIONS



## KEY

- A** GORE® Universal Pipe Gasket
- B** GORE® GR Sheet Gasketing
- C** GORE® Joint Sealant
- D** GORE® Gasket Tape Series 500

- E** GORE® Gasket Tape Series 1000
- F** GORE® Joint Sealant FT
- G** GORE® GFO® Packing
- H** GORE® Valve Stem Packing

# GORE<sup>®</sup> GASKETING

*Whether it's a standard piping or vessel application, or a difficult and unusual sealing problem, chances are one of Gore's gasketing products can provide a highly effective solution.*



## Reliable Seal

Gore sealants are among the world's tightest, most reliable and chemically resistant gaskets. They withstand temperatures from -450°F to +600°F (-268°C to +315°C), making them ideal for high-temperature as well as cryogenic applications. And they are resistant to the most challenging chemicals.

Our gaskets are proven effective against every performance measure. They seal at low bolt loads, conform to flange deviations, exhibit high dimensional stability, resist creep and cold flow, and are highly resistant to blowout.

Gore gaskets are designed to meet the many needs of process piping materials, making them ideal for lowering total sealing system costs. They solve special sealing problems, and provide the ability to standardize with one gasket material across steel, glass-lined and fiber-reinforced plastic (FRP) systems wherever non-metallic gaskets are used.



## GORE® UNIVERSAL PIPE GASKET (STYLE 800)

A



A universal gasket for all standard flanges on chemical process piping. Designed to meet the needs of different piping materials, it is ideal for standardizing across steel, glass-lined steel, and fiber-reinforced plastic (FRP) systems. It delivers long-life performance, lowers total system sealing costs and simplifies inventory stocking requirements, while also protecting against the use of the wrong gasket.

## GORE® GASKET TAPE SERIES 500

D



Save time, money, and trouble with this cutting-edge form-in-place product that maximizes operational reliability of large steel pipe and equipment flanges. Delivering dramatically improved creep resistance, the highly compressible tape forms a very tight seal that is long-lasting while also handling the rigors of virtually any chemical process. Unlike traditional large gaskets, this tape fits any shape instantly which eliminates large gasket fabrication and inventory challenges.

## GORE® GR SHEET GASKETING

B



Unmatched in sealing reliability, this unique product is ideal for sealing steel pipe and equipment flanges across a range of aggressive fluids. Gain the benefits of PTFE gasketing without the problems of creep and cold flow – along with a level of high-temperature and blowout resistance that is superior to any other PTFE sheet gasket. Highly conformable, it compresses into an extremely tough gasket that seals tight, even on irregular flanges.

## GORE® GASKET TAPE SERIES 1000

E



GORE® Gasket Tape Series 1000 addresses all the challenges of reliably sealing large glass-lined-steel flanges. Made of 100% expanded PTFE (ePTFE), this highly conformable tape is chemically inert, and highly resistant to creep, cold flow and clamp-force loss. Its proprietary barrier core maintains an extra tight seal even at low loads.

## GORE® JOINT SEALANT

C



The original form-in-place gasketing, it's the most versatile and cost-effective alternative to sheet gasketing for large equipment flanges. Ideal for sealing complex surfaces, it conforms extremely well to rough or pitted surfaces. It's easy to install, too: just peel off the backing, apply to the surface, and overlap the ends for a remarkably tight seal.

## GORE® JOINT SEALANT FT

F



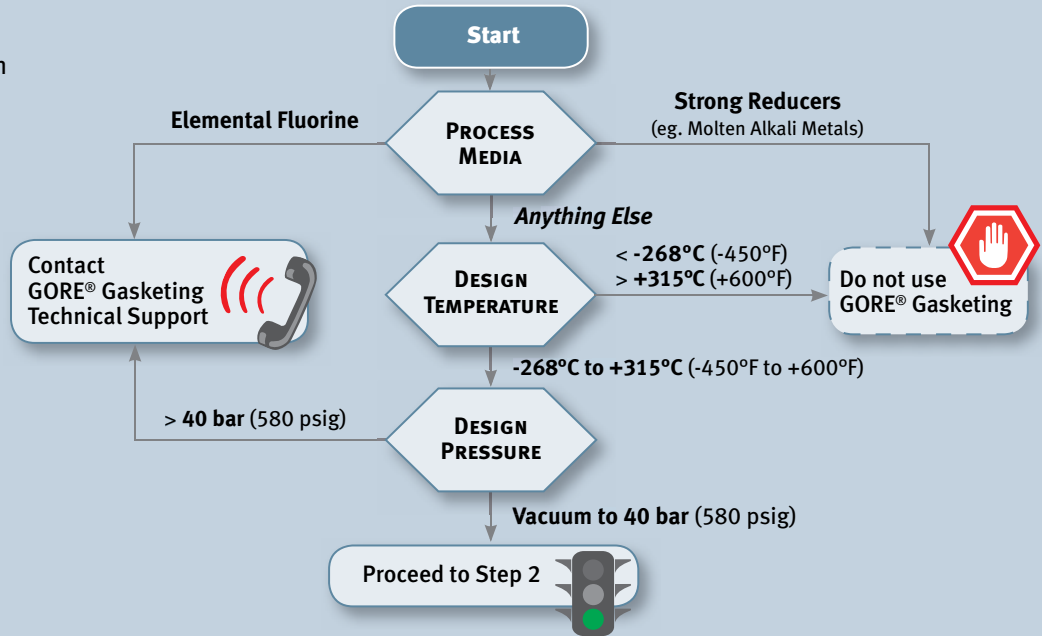
This versatile, thin-profile, form-in-place gasketing features a full-face strip-type construction under 2 inches (50.8 mm) wide for smooth, flat, rectangular sealing surfaces or for narrow sealing surfaces. It compresses easily to an extremely thin profile, while requiring only minimal compression to seal. Because of its easy installation and removal, it is ideal for equipment with tight tolerances.



# GASKETING PRODUCT SELECTION GUIDE

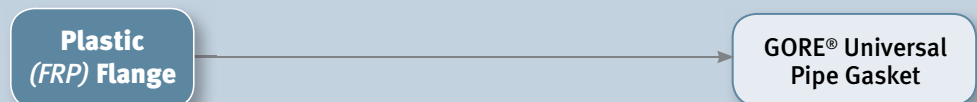
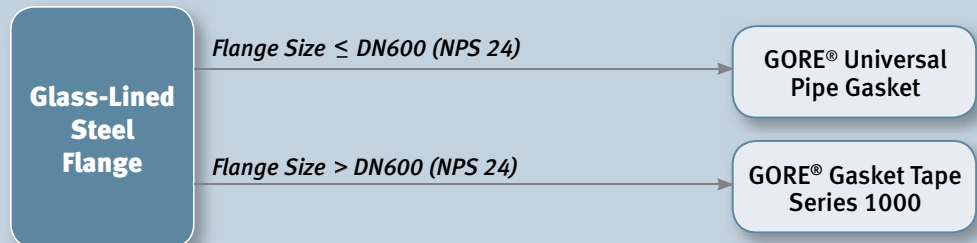
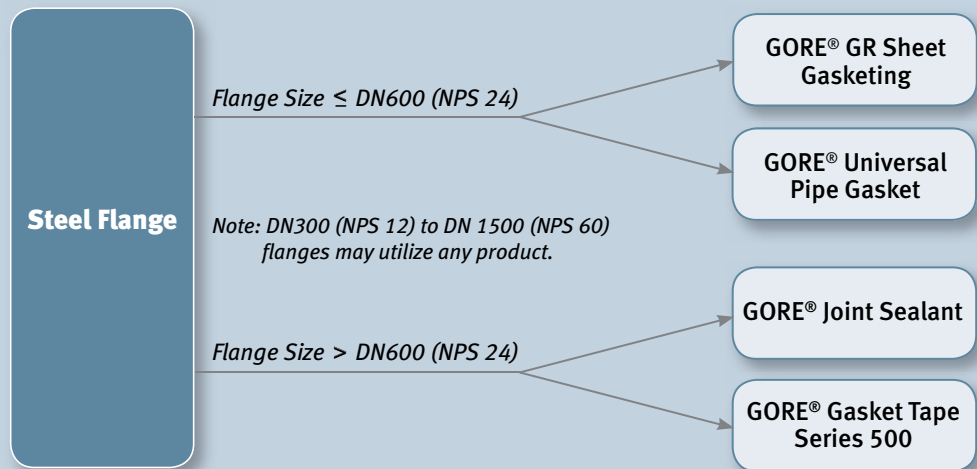
## STEP 1:

Verify that the Application meets GORE® Gasketing Qualifications



## STEP 2:

Narrow the selection of GORE® Gasketing Products for the Application



► For other flange materials, please contact your Gore representative.

# GORE® PACKING

## GORE® GFO® PACKING

G

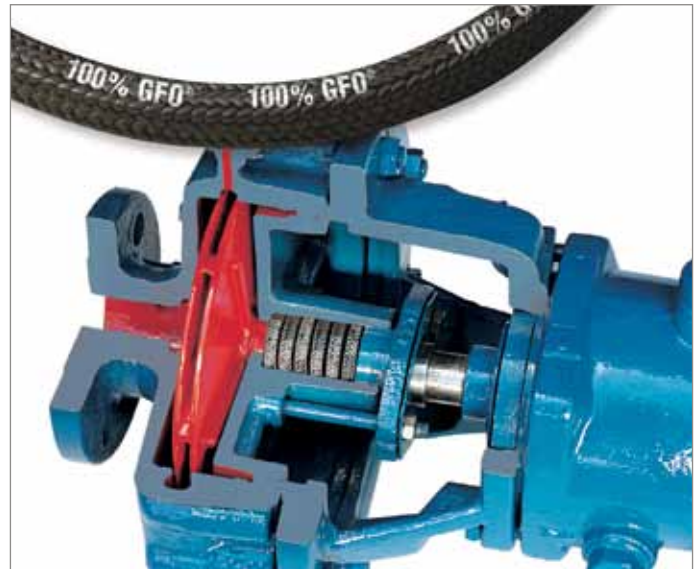


Pack It and Forget It.™

**Proven High Performance**  
Packings containing 100% GORE® GFO® fiber give maintenance engineers consistently high-performing general service packing for wide application and use. Unlike other PTFE/graphite packings, only those made with GFO® fiber, with its 30-year history of trouble-free performance, deliver an unmatched level of assurance and confidence.

Because of its high durability and long life, GORE® GFO® packing is consistently high performing. Its applications include sealing shafts on high-speed pumps, mixers, agitators, or any other equipment with rotating or reciprocating shafts.

GORE® GFO® packing doesn't get hard or brittle, thereby minimizing shaft wear. Moreover, its excellent lubricity and high



thermal conductivity keep it cool-running even after extended periods of continuous operation at shaft speeds to 4,300 fpm (21.8 m/s). Easy to install and remove, this packing is temperature and chemically tolerant over a wide range of conditions.

### The Only Seal of Assurance Program for Packing Fibers

Many PTFE/Graphite packings are available in the market. They all look the same but often have inconsistent and/or inferior product quality. The installation of these products can lead to premature packing failure and unscheduled shutdowns. Such problems can cost a lot of time and money.

To overcome these challenges, Gore's Seal of Assurance Program ensures that every fiber used to braid the packing is a GORE® GFO® Fiber. We even

perform an after-market audit to confirm it. Look for 100% GFO® printed right on the packing – it's the only packing that is identified this way! That is your genuine reassurance that your packing works and performs...and will keep working and performing.



## GORE® VALVE STEM PACKING

H



A pliable, self-lubricating packing that eliminates stem wear and lasts longer. This continuous-length packing is easy to install and forms a cohesive cylinder when compressed, eliminating the need to cut and form rings.



# Sealant Technologies

[www.gore.com/sealants](http://www.gore.com/sealants)

Visit our web site for more information on sealant technologies.

You'll find important information on Gore's sealing products, technical specifications, recommended applications and usage guidelines. You may also contact our technical support team about your specific sealing challenges, or to locate a Gore authorized distributor in your area.

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