



# Sealant Technologies

*For Fluid Sealing and Transport*



# GORE TECHNOLOGY

SOLVING THE MOST CHALLENGING SEALING PROBLEMS.



*For nearly 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.*



**Sealing with Certainty®**

## Fluid Sealing Leadership

For nearly 40 years, the Sealant Technologies Group of W. L. Gore & Associates, Inc. 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, seals and other fluid-handling products. We've also established a comprehensive technical services program, specially designed to help customers determine the best solutions for their toughest sealing applications.

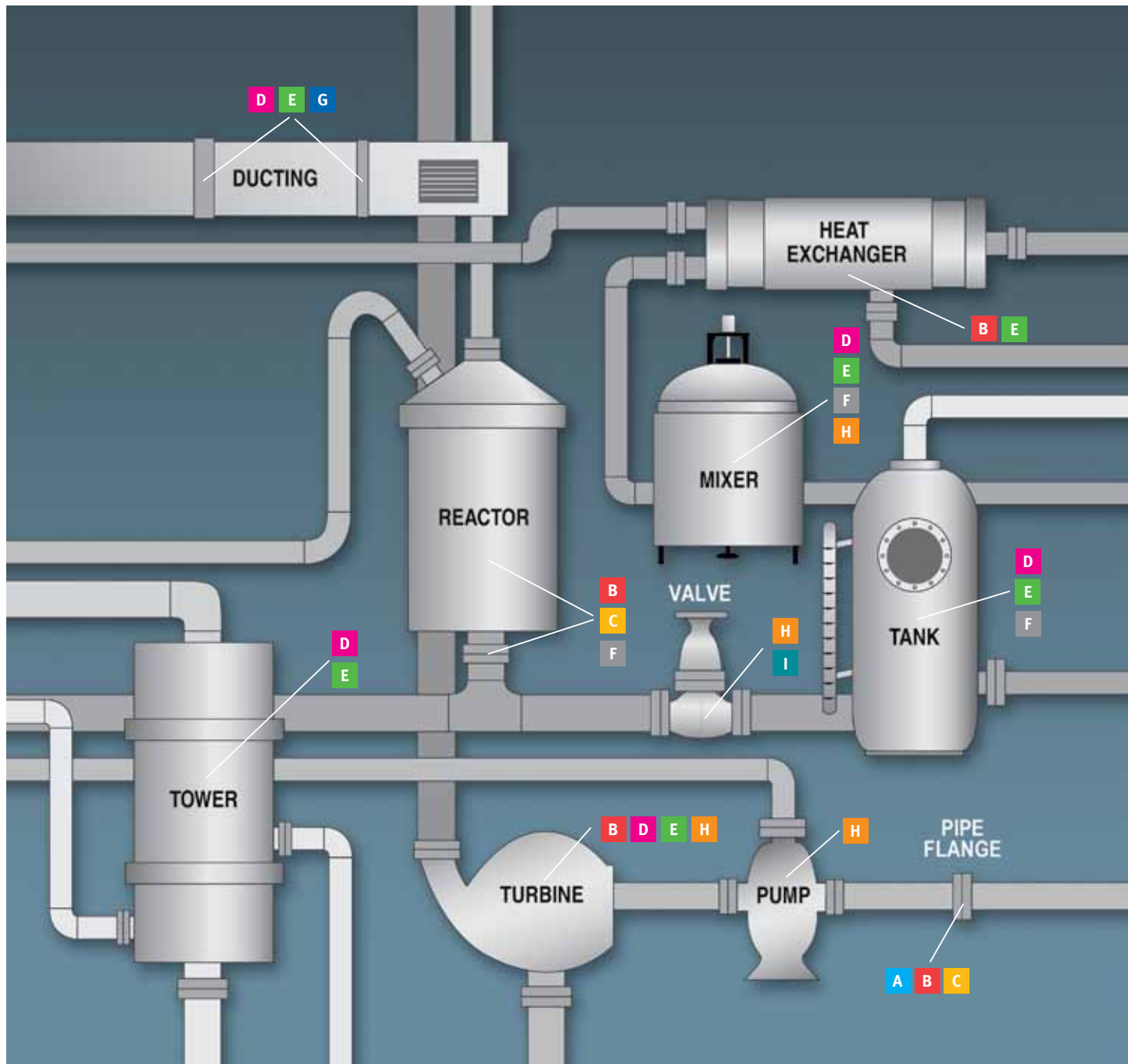
## Products that Seal

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 the highest-performing, most universal products on the market today.

## Global Company ... Global Commitment

We're a creative technology company employing more than 9,000 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® TriGuard® Gasket
- D** GORE® Joint Sealant\*

- E** GORE® Series 300 Gasket Tape
- F** GORE® Series 600 Gasket Tape
- G** GORE® Gasket Tape\*
- H** GORE® GFO® Packing\*

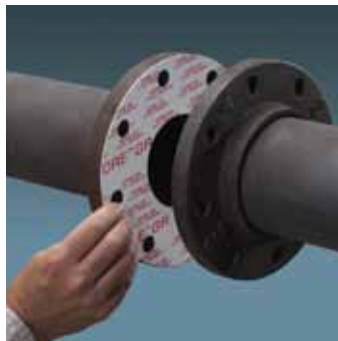
- I** GORE® Valve Stem Packing\*

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Not for use in food, drug, cosmetic  
or medical device manufacturing,  
processing, or packaging operations.



# GORE 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.*



## **Most Reliable Seal**

Gore sealants are among the world's tightest, most reliable and chemically resistant gaskets. They withstand temperatures from  $-450^{\circ}\text{F}$  to  $+600^{\circ}\text{F}$  ( $-268^{\circ}\text{C}$  to  $+315^{\circ}\text{C}$ ), 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 FRP systems wherever non-metallic gaskets are used.



## GORE® UNIVERSAL PIPE GASKET (STYLE 800)

A



Finally, 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® SERIES 300 GASKET TAPE

E



Multidirectionally expanded PTFE gasket tape for large-diameter steel piping and equipment. It can be formed quickly, installs easily around shaft assemblies, and reduces expensive material scrap. Because it is customized at installation, it eliminates long lead times and minimizes gasket inventories. With superior sealing reliability and longer life, this chemical-resistant tape reduces overall sealing costs.

## 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® SERIES 600 GASKET TAPE

F



A form-in-place gasket for glass-lined equipment that guards against premature gasket failure. Unlike PTFE envelope gaskets, it won't degrade due to chemical attack, ensuring a tight, long-lasting seal. Made from 100% multi-directionally expanded PTFE, the entire gasket is chemically inert. It conforms to common glass-lined flange imperfections, yet maintains dimensional stability. Plus, installation is quick, easy and lower cost.

## GORE® TRIGUARD® GASKET

C



Designed for low stress-to-seal flanges, this gasket seals fragile pipe flanges with low bolt load. It seals tight and stays tight, even with varying flange conditions, while protecting weak and fragile flanges from cracking. Because it is unaffected by most aggressive chemicals, it is ideal for contamination services and highly permeable fluids, including chlorine and monomer service.

## GORE® GASKET TAPE\*

G



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.

## GORE® JOINT SEALANT\*

D



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.

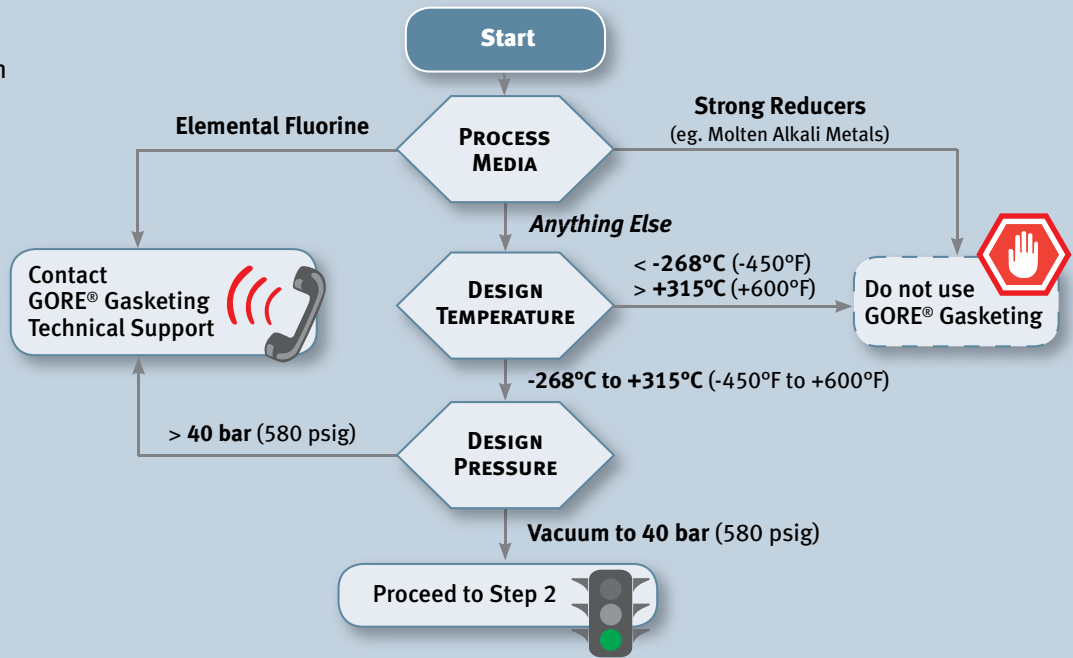


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# GASKETING PRODUCT SELECTION GUIDE

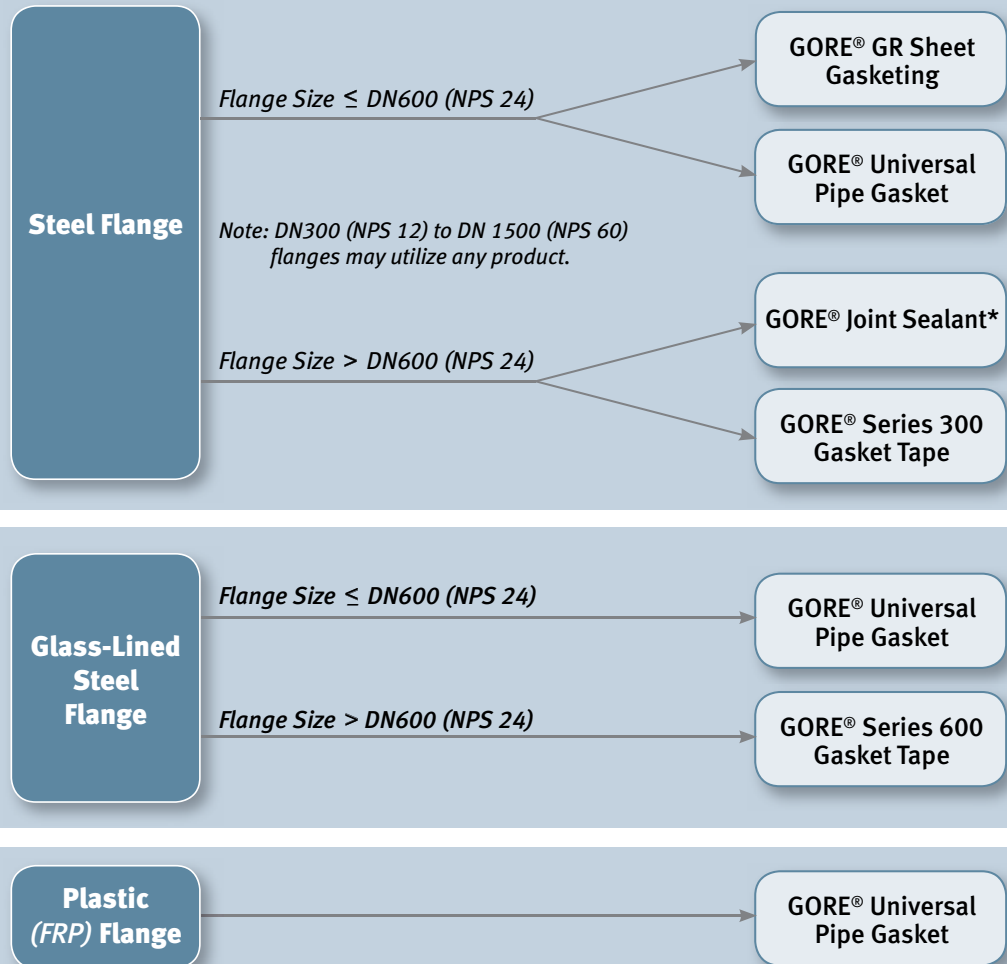
## STEP 1:

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® FIBER PACKING



*Pack It and Forget It.™*



## Proven High Performance

You will benefit from a full line of high-performance compression packings. These materials are chemically inert, highly abrasion-resistant, plus they're able to withstand temperatures up to 550°F (288°C). Extremely long-lasting, they guard against unexpected packing failure and help reduce plant downtime.

## Seal of Assurance

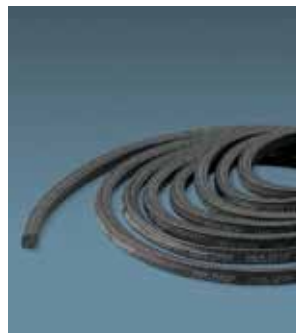
With a 30+ year history of trouble-free performance, 100% GORE® GFO® fiber packing delivers an unmatched level of assurance and confidence. It's the only packing material that performs so well, its name is printed right on the packing. That's your only genuine reassurance that your packing works and performs ... and will keep on working and performing.

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## GORE® GFO® PACKING\*

H



Incomparable compression pump packing that outlasts virtually any other packing it replaces. Easy to install and remove, it never gets hard or brittle. It dissipates frictional heat and runs cool, even after extended periods of continuous operation. It saves money and labor, including downtime from repacking pumps or resurfacing shafts. Look for the GFO® name printed right on the packing for the confidence that the product will work every time.

## GORE® VALVE STEM PACKING\*

I



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 specialists about your specific sealing challenges, or to locate a Gore authorized distributor in your area.

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