

GORE® Sealant Technologies
For Fluid Sealing and Transport

Together, improving life

PROVEN SOLUTIONS FOR THE
TOUGHEST FLUID-SEALING
CHALLENGES





Gore Technology

**Solving the most
challenging sealing
problems.**

Fluid Sealing Leadership

For more than 50 years, the Sealant Technologies Group of W. L. Gore & Associates has focused on the factors that enable more reliable 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's 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.

Five decades of innovation

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

Global Company . . . Global Commitment

We're a creative technology company employing more than 11,000 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.



Gore Gasketing

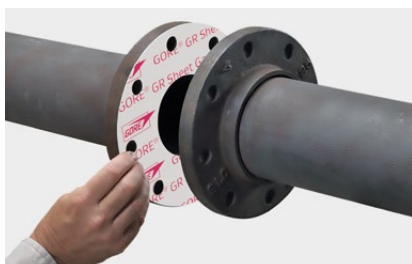
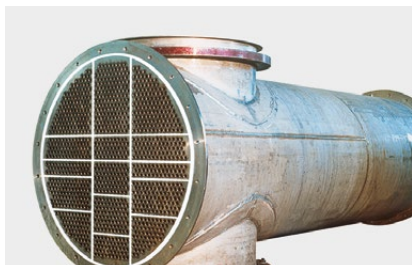
Reliable Seal

Gore sealants are among the world's tightest, most reliable and chemically-resistant gaskets. They withstand temperatures from -269°C to $+315^{\circ}\text{C}$ (-452°F to $+600^{\circ}\text{F}$), 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.

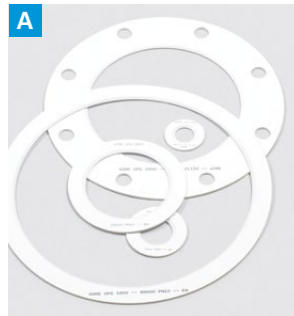
Gore gaskets are designed to meet the many needs of diverse process piping materials, which is ideal for lowering total sealing system costs. They solve special sealing problems, and provide the ability to standardize with one gasket material across steel, glass-lined and fiber-reinforced plastic (FRP)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

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.



GORE® Universal Pipe Gasket (Style 800)

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

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

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

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

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.

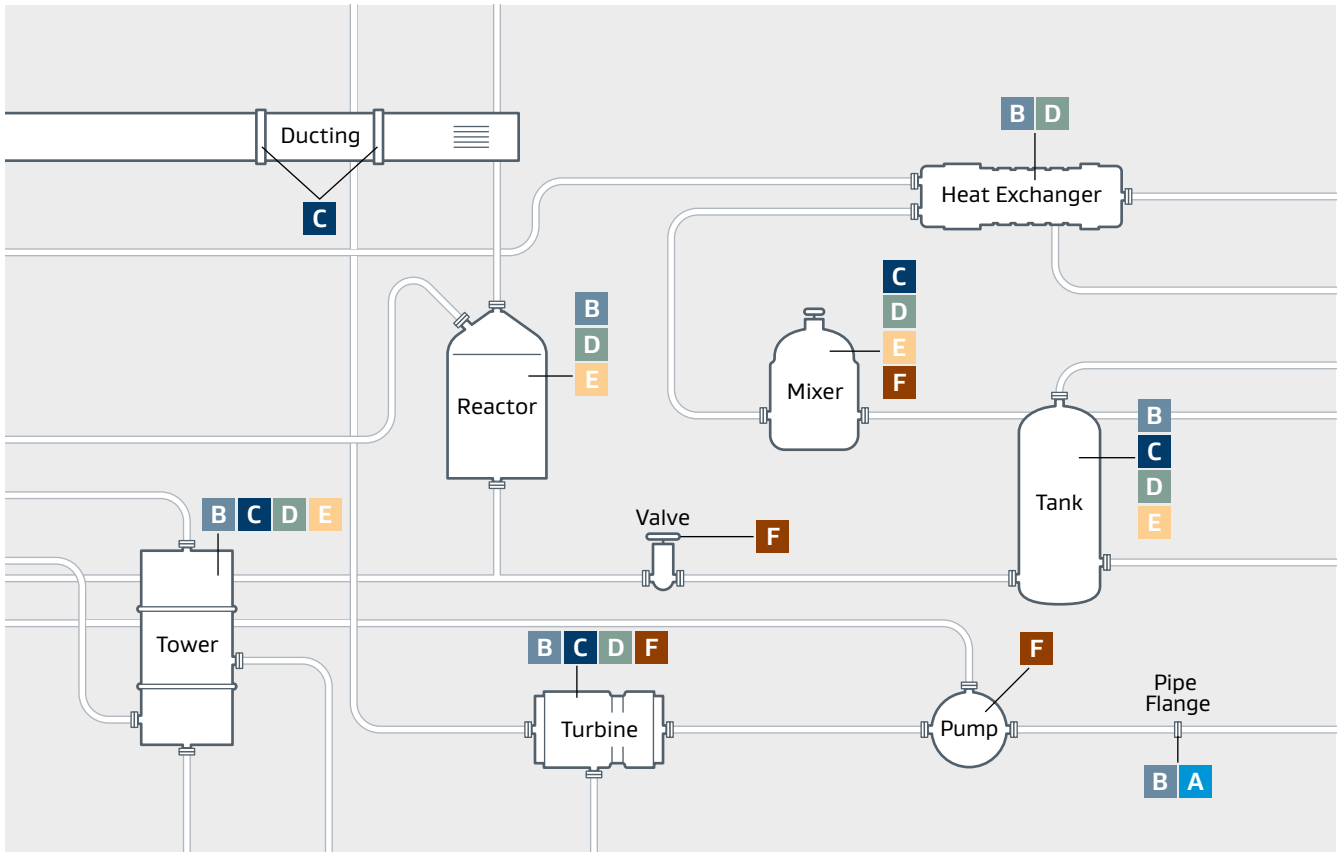


GORE® GFO® Packing Fiber

This durable, high-performance packing is easy to install and remove, and can be used in a wide range of conditions and applications: from sealing shafts on high-speed pumps, mixers and agitators, to virtually any equipment with rotating or reciprocating shafts. Unlike ordinary PTFE/graphite packings, packings with 100% GORE GFO fiber withstand extended run-times at high speeds without becoming hard or brittle.



Applications

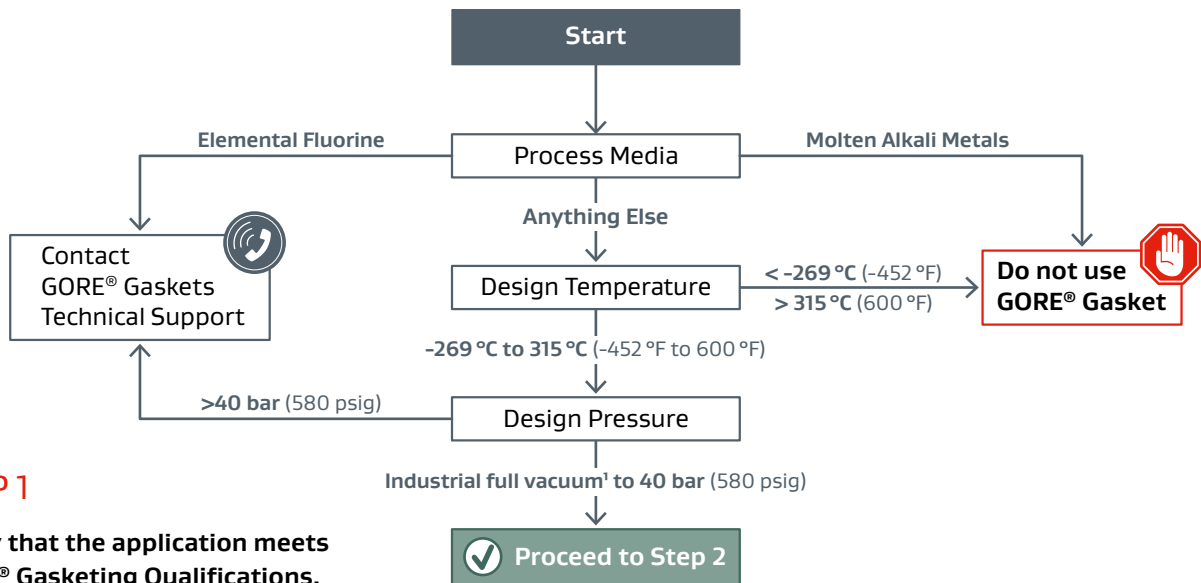


The Only Seal of Assurance Program for Packing Fibers

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.

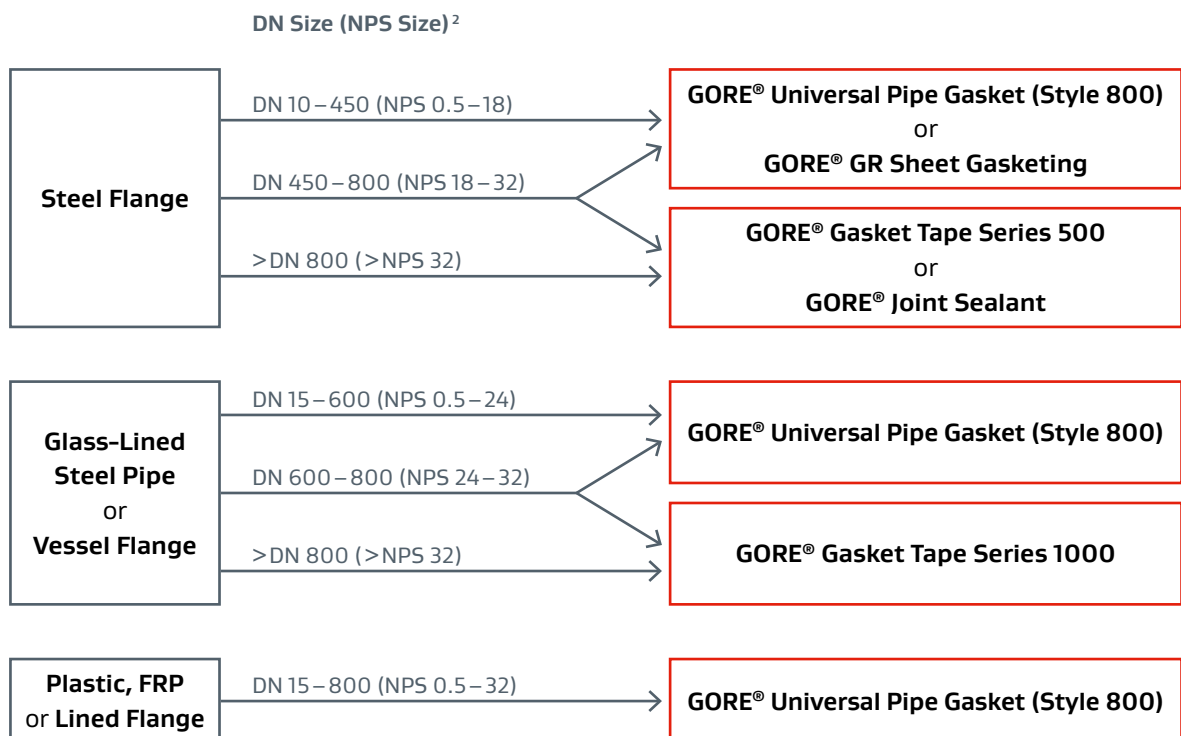
To overcome these challenges, Gore's Seal of Assurance Program ensures that every fiber used to braid the packing is a genuine GORE® GFO® Packing Fiber. We even perform an after-market audit to confirm it. Look for 100% GFO® printed right on the packing — it's the only packing that is identified this way! It assures you that you are getting packing that works and performs... and will keep working and performing.





STEP 2

Narrow the selection of GORE® Gaskets for the application by selecting the flange material and size.



These selection criteria are for general guidance only. To determine suitability in a specific application, see the product data sheets and installation instructions on gore.com. If additional assistance is needed, please contact GORE® Gaskets Technical Support.

1 Absolute pressure of 1 mmHg (Torr) = 133 Pa = 1.33 mbar = 0.019 psi

2 EN 1514 Dimension Nominal (DN) / ASME B16.9 Nominal Pipe Size (NPS)

GORE® GR Sheet Gasketing and unprinted GORE® Universal Pipe Gasket (Style 800) conform to the US FDA 21CFR and EU directive EC 1935/2004 requirements relating to food contact. Declaration of Compliance is available upon request.

All technical information and advice given here is based on Gore's previous experiences and/or test results. Gore gives this information to the best of its knowledge, but assumes 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. The above information is subject to change and is not to be used for specification purposes. Gore's terms and conditions of sale apply to the sale of the products by Gore.

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