



GORE® Series 300

GASKET TAPE



Gasket Tape for Steel Equipment

SEALS QUICKLY AND RELIABLY

GORE® Series 300 gasket tape helps to achieve greater sealing efficiencies with large steel piping and equipment. Unlike sheet gasketing, it can be quickly formed in place, installs easily, and reduces expensive material scrap.

GORE® Series 300 gasket tape is the ideal choice for sealing large diameter flanges. Made from 100% multi-directionally expanded PTFE, it combines superior sealing performance and efficiency. Tighter and more creep resistant than other gasketing alternatives, it also has the advantages of a form-in-place sealing solution. Without “donut hole” scrap from cutting, it is often more cost effective. Because it is customized at installation, long lead times are eliminated and gasket inventories are reduced.

Conformable and highly compressible, this tape forms a very tight seal. Strong multi-directionally expanded PTFE gives excellent creep resistance for a long-lasting seal that withstands virtually any chemical process.

TECHNICAL DATA

MATERIAL

100% expanded PTFE, with multi-directional strength.

TEMPERATURE RANGE

-450°F to 600°F (-268°C to 315°C)

CHEMICAL RESISTANCE

Chemical resistance to all media pH 0-14, except molten alkali metals and elemental fluorine.

OPERATING PRESSURE

Vacuum to 1,000 psig (68 bar)

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
- Chemically inert
- Temperature resistant
- Highly conformable
- Dimensionally stable
- Resists creep & cold flow
- 1/16" & 1/8" thicknesses replace sheet gasketing
- Easy to install

KEY BENEFITS

- Installs quickly around shaft assemblies
- Lowers inventory, delivery & installation costs
- Unaffected by virtually all common chemicals
- Superior sealing reliability & longer gasket life
- Lower total sealing cost



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TYPICAL PROPERTIES

COMPRESSIBILITY/RECOVERY

ASTM F-36
40% Compressibility
17% Recovery

SEALABILITY

ASTM F-37-B
0.10 ml/hr @ 30 psig (2 bar-air)
0.004 ml/hr @ 10 psig (0.7 bar-liquid)

CREEP RELAXATION

ASTM F-38
18% @ 73°F/22 hrs
32% @ 212°F/22 hrs
ATRS
30% @ 200°F (93°C)
53% @ 400°F (204°C)

MAXIMUM SURFACE STRESS

ROTT (Crush) 25,000 psi

BLOWOUT RESISTANCE

(HOB2) @ 600°F (315°C) 750 psi

ASTM DESIGN CONSTANTS

m=2.0, y=2,800 psi

PVRC DESIGN CONSTANTS

G_b=310 psi, G_s=3.21, a=0.352

AVAILABLE SIZES

Standard Nominal Thicknesses	Standard Nominal Widths	Standard Lengths
1/16" (2 mm)	3/8" (10 mm)	25 ft.
1/8" (3 mm)	1/2" (15 mm)	50 ft.
	3/4" (20 mm)	100 ft.
	1" (25 mm)	
	1-1/2" (40 mm)	
	2" (50 mm)	

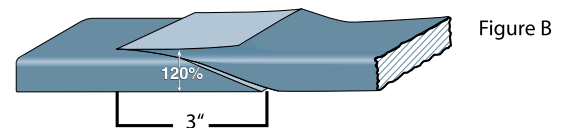
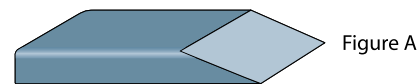
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INSTALLATION IS SIMPLE

Completely clean the sealing surfaces to remove any dirt, corrosion, oil, or leftover gasket material. Cut one end of the gasketing using the skiving technique shown in Figure A. Remove the adhesive backing and position the tape at the center of the effective sealing width, placing the skive just inside a bolt hole. Fit the gasket tape around the entire flange circumference. Lay the tape across the skive, completing with a second cut as shown in Figure B, allowing 1" of overlap. Horizontally cut off the excess, leaving a total thickness of approximately 120% of the original. At least 3 progressive torque sequences in a star or 180° method should be used. Lastly, perform a circular torque check to ensure a tight, long-lasting seal.



INSTALLATION GUIDELINES

- Tape Width = Approx. 75% of effective sealing surface.
- Thickness = 1/8" for most flanges (up to 0.040" flange deviation). 1/16" for equipment with tight tolerances. For greater flange deviation, please contact Gore for a recommendation.

QUALITY ASSURANCE

Manufacturing and quality control processes conform to ISO 9001.

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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