



GORE® Series 600

GASKET TAPE



For Glass-Lined Equipment

UNSURPASSED PROTECTION

GORE® Series 600 gasket tape is a form-in-place gasket for glass-lined equipment that guards against premature gasket failure. Unlike PTFE envelope gaskets, it will not degrade due to chemical attack, and will ensure a tight and long-lasting seal.

GORE® Series 600 gasket tape is the ideal choice for sealing large diameter flanges. Made from 100% multi-directionally expanded PTFE, the entire gasket is chemically inert. As a result, the user will not experience the sealing problems associated with aggressive media or outside environments. This unique gasket tape conforms to the imperfections common in glass-lined flange surfaces, while maintaining dimensional stability for superior sealing reliability.

This gasket tape can be installed easily and quickly, yielding initial savings. And since it minimizes unexpected process upsets, process productivity gains are also achieved.

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.

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
- Metal free ... doesn't degrade
- Highly conformable
- Dimensionally stable
- Resists creep & cold flow
- Easy to install

KEY BENEFITS

- Unaffected by virtually all chemicals
- Retains stress for minimum retorque
- Minimizes leak potential
- Reduces installation cost
- Superior sealing reliability & longer gasket life



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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
1/4" (6 mm)	1" (25 mm)	15 ft.
3/8" (9 mm)	1-1/4" (30 mm)	30 ft.
	1-1/2" (40 mm)	50 ft.
	2" (50 mm)	
	2-1/2" (65 mm)	

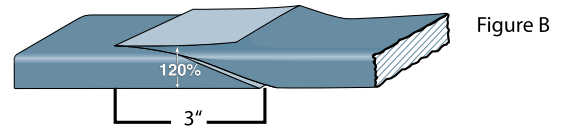
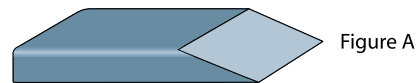
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INSTALLATION IS SIMPLE

Separate the flanges a minimum of 6" for room to work and completely clean the glass 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 flush with the flange ID, placing the skive at a marked location where a clamp will be placed. 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 3" 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 at the maximum allowable OEM recommended torque for the equipment to ensure a tight, long-lasting seal.



INSTALLATION GUIDELINES

- Tape Width = Effective Sealing Surface + 1/8"
- Thickness = 1/4" for flange irregularities up to 0.080"
- Thickness = 3/8" for extreme irregularities 0.080 - 0.120"
- 1/8" shim packs used to fill in localized sections of additional 0.040" deviation.

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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