

# **Gasket Tape Series 1000**



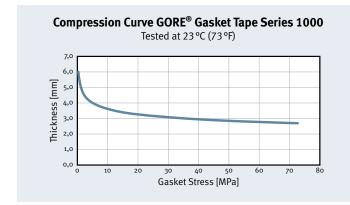
Easily and reliably seal glass-lined steel to contain aggressive media, protect equipment, and reduce emissions.

## **TECHNICAL SPECIFICATIONS**

- Material: 100 % expanded polytetrafluoroethylene (ePTFE) with multidirectional strength.
- Operating Range: The maximum applicable pressure and temperature depend mainly on the equipment and installation. Typical use: from -60 °C to 230 °C (-76 °F to 445 °F); industrial full vacuum<sup>1</sup> to 10 bar (145 psi).

Maximum use: -269 °C to 315 °C (-452 °F to 600 °F); full vacuum to 16 bar (230 psi) for flanges up to DN 2000/ASME 80". Be aware that flange surface irregularities may cause high peak loads. Please contact De Dietrich if further guidance is required.

For applications outside the typical use range, Gore recommends an application specific engineering design calculation and extra care during installation.



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

• Shelf Life: ePTFE is not subject to aging and can be stored indefinitely. To ensure optimal adhesive function, we recommend use within two years of date of purchase when stored under normal conditions.

	Thickness		
	6 mm (1/4")	9 mm (3/8")	
Sealability <sup>2</sup>			
Q <sub>min</sub> (0.1)	9 MPa (1,305 psi)	available soon	
Q <sub>min</sub> (0.01)	14 MPa (2,030 psi)	available soon	
$Q_{smin}$ up to Lo.0001 and $Q_A > 5$ MPa	5 MPa (725 psi)	available soon	
Conformability <sup>3</sup>			
Stress to seal 0.1 mg/(m·s) measured on test plattens with a groove <sup>3</sup>	9 MPa (1,305 psi)	available soon	
Stress to seal o.o1 mg/(m·s) measured on test plattens with a groove <sup>3</sup>	14 MPa (2,030 psi)	available soon	
Creep relaxation <sup>4</sup>			
P <sub>QR</sub> , 150 °C (302 °F)	0.49	available soon	
Crush strength <sup>5</sup>			
Max. surface stress at 23 °C (73 °F)	70 MPa (10,150 psi)	available soon	

- 1) Absolute pressure of 1 mmHg(Torr) = 133 Pa = 1.33 mbar = 0.019 psi
- 2) Based on EN 13555 leakage test protocol. DN200 PN10 plattens, 10 bar nitrogen, 30 mm wide tape.
- 3) As 2) but with 0.5mm deep rectangular groove cut into the plattens.
- 4) Based on EN 13555 creep relaxation test protocol (Pop). 2 x 250 mm x 55 mm strips, 500 kN/mm, 10 MPa starting stress.
- 5) 2 x 250 mm x 55 mm strips, 500 kN/mm, 0.1 MPa/s load rate, 15 min hold time, no visible damage.

### **PRODUCT SIZES**

Choose tape width to be the same or wider than the width of the flange. Use 6 mm (1/4) tape thickness for deviations up to 1.5 mm (0.060"), respectively 9 mm (3/8") tape thickness for deviations up to 2.3 mm (0.090") without shimming. For greater deviations, consider shimming with GORE® Series 1000 shim tape. Further details are available in the installation instructions.

Width		Thickness		Length	
40 mm	1.5"	6 mm	1/4"	5 m	16'
55 mm	2"	9 mm	3/8"	10 m	32'
65 mm	2.5"			15 m	49'

All combinations of width, thickness, and length are available. Manufactured to metric dimensions Shim tape only available in above widths, 3 mm (1/8") thickness and 5 m (16') length.



Ask for De Dietrich expertise to help install your sealing system and take advantage of the know-how available from a leading glass-lined steel manufacturer. For more information, please visit www.dedietrich.com/en/\$1000 or contact one of the following offices:

Tel.:

Web:

North America/South America

+1 908 317 2585

De Dietrich Process Systems Inc. (USA)

www.ddpsinc.com/\$1000

### Europe/Middle East/Russia/Africa/Asia

De Dietrich Process Systems (France) +33 3 88 53 23 85 E-mail: aftersales@dedietrich.com

De Dietrich Process Systems (China) +86 21 6390 0772 E-mail: jingyan.sun@dedietrichchina.com

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