



Gasket Tape Series 1000

Datasheet

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 vacuum¹ 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.

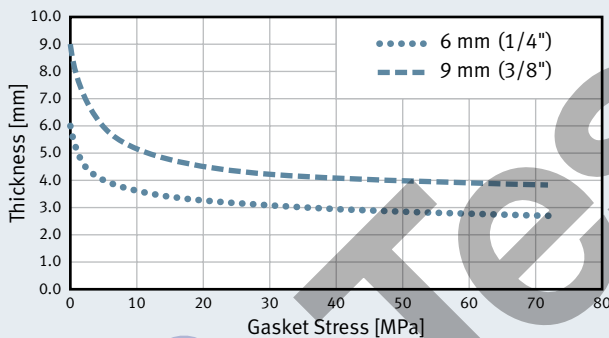
For applications outside the typical use range, Gore recommends an application specific engineering design calculation and extra care during installation.

- 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")
Sealability²		
Q _{min} (0.1)	9 MPa (1,305 psi)	13 MPa (1,885 psi)
Q _{min} (0.01)	14 MPa (2,030 psi)	18 MPa (2,610 psi)
Q _{smin} up to L0.0001 and Q _A > 5 MPa	5 MPa (725 psi)	5 MPa (725 psi)
m	5	5
y	9 MPa (1,305 psi)	13 MPa (1,885 psi)
Conformability³		
Stress to seal 0.1 mg/(m·s) measured on test plattens with a groove ³	9 MPa (1,305 psi)	13 MPa (1,885 psi)
Stress to seal 0.01 mg/(m·s) measured on test plattens with a groove ³	14 MPa (2,030 psi)	18 MPa (2,610 psi)
Creep relaxation⁴		
P _{0.5} , 150 °C (302 °F)	0.49	0.41
P _{0.5} , 230 °C (445 °F)	0.36	0.29
Crush strength⁵		
Max. surface stress at 23 °C (73 °F)	70 MPa (10,150 psi)	70 MPa (10,150 psi)

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

Compression Curve GORE® Gasket Tape Series 1000
Tested at 23 °C (73 °F)



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.

Endorsed by **De Dietrich**
PROCESS SYSTEMS

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/S1000 or contact one of the following offices:

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