



TG-323 Reinforced PTFE Gasketing

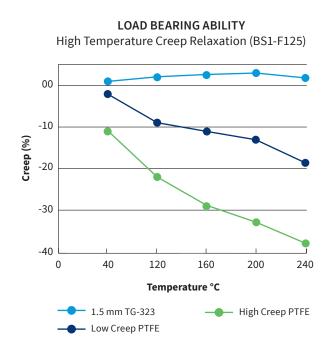
TECHNICAL DATA SHEET 225

Product Overview

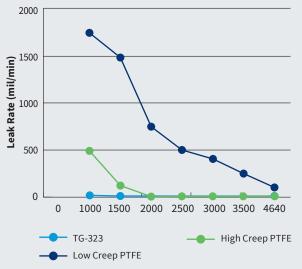
GRAFOIL® Grade TG-323 laminated gasket material consists of multiple plies of woven fiberglass coated with PTFE.

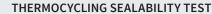
Applications

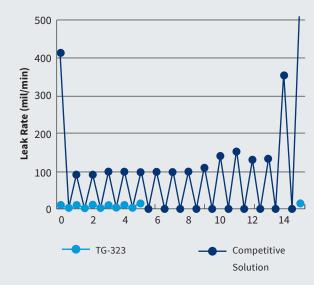
 Electrical isolation of pipelines and equip, use with sulfuric acid, nitric acid and other strong oxidizing chemicals



SEALABILITY (MODIFIED DIN3535)







Gasket size: OD3.75" (95.3 mm) x ID 1.91" (48.5 mm) x 1/16" (1.6 mm). Internal Pressure: 580 PSI (4MPa) Nitrogen

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GRAFOIL® TG-323 REINFORCED PTFE GASKETING

Advantages of TG-323 Material

- More than 5 times the tensile strength of the market leader PTFE
- Extremely tolerant to process changes (temperature & pressure)
- Design and material give up to 14 times the sealability rate
- · 70% less creep

- Absorption rate of less than 0.1%
- Maintains a higher bolt torque retention and a better seal in applications of thermal cycling

Typical Properties*

CHARACTERISTIC TYPICAL VALUE

Thickness	1/16" (0.062") (1.57 mm) 1/8" (0.125") (3.18 mm)
Width	36" (914 mm) Tolerance +0.25/-0" (+6.35/-0 mm)
Length	48" (1219 mm) Tolerance +0.25/-0" (+6.35/-0 mm)
Compressibility at 5000 psi (35 MPa) load	3%
Recovery after 5000 psi (35 MPa) load	70%
Creep Relaxation Method: BSI-F125 at 6391 psi (44.1 MPa) loadup to 400°C	<3%
Room Temperature Sealability at 9.8 psi (68 MPa) internal pressure, Fuel "A" (isooctane)	0.02 ml/hr
High Temperature Sealability Method: Mod DIN 3535 at 580 psi N2 at 32 MPa load	<0.1 ml/min
Specific Gravity	2.3 g/cm ³
Tensile Strength	12000 psi (82.7 MPa)
Coefficient of Thermal Conductivity (k)	0.18
Dielectric Strength	250 V/Mil
Maximum Continuous Working Temperature	245°C (475°F)
Minimum Working Temperature	-200°C (325°F)
Flammability	Will not support combustion
Bacterial Growth	Will not support bacteria

Notes: * Properties listed are typical and cannot be used as accept/reject specifications.

Typical Design Properties

• "m" Factor: 3

• "y" Stress: 2200 psi (15.2 MPa)

Note: For non-perfect flanges, multiply calculated clamping force by two.

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