

SUPER GTO™ Flexible Graphite

Technical Data Sheet 213

Product Family - Single Layer Materials - Inhibited (Service to 525°C)

- GTJ - Nuclear 99.8% Graphite, D50YP12 or SHELL MESC SPE 85/203
- GTB - 98% Graphite, FSA G-604-07 Method A
- SUPER GTO™ - 97% Graphite, FSA G-604-07 Method A

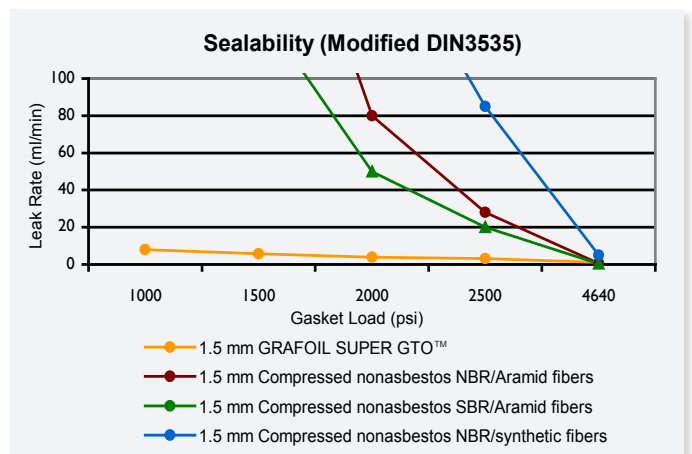
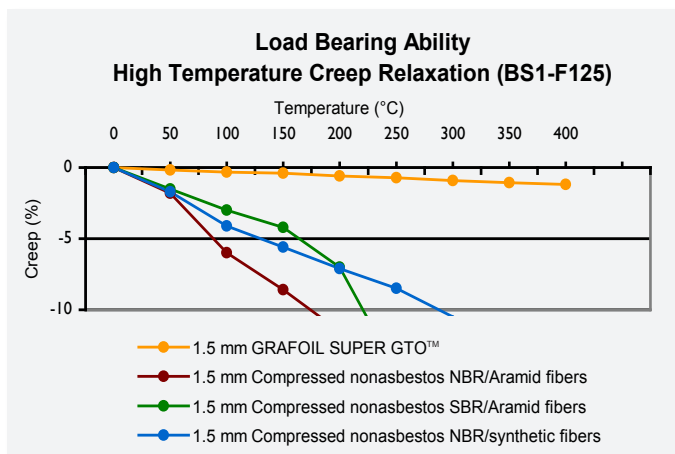
Product Overview

GRAFOIL[®] SUPER GTO™ flexible graphite is inhibited against oxidation and corrosion specifically for use in automotive and internal combustion applications.



Applications

- Exhaust systems where oxidation resistance is critical



While maintaining an effective seal, GRAFOIL[®] material exhibits virtually no creep relaxation. As a result, the need for periodic bolt tightening is greatly reduced.

Typical Properties*

Characteristic	Typical Value
Thickness	0.015" (0.38 mm) 0.030" (0.76 mm)
Width	39.4" (1000 mm)
Length	100' (30.5 m)
Bulk Density	70 lb/ft ³ (1.12 g/cc)
Ash Content	3%
Carbon Content	97%
Moisture	0.10%
Leachable Chloride	10 ppm
Oxidation Weight Loss	3%
Compressibility at 5000 psi (35 MPa) load	43%
Recovery after 5000 psi (35 MPa) load	13%
Tensile Strength	650 psi
Temperature Use Range	-400°F to 975°F (-240°C to 525°C)
Creep Relaxation Method: BSI-F125 at 6391 psi (44.1 MPa) load up to 400°C	<3% for 70 lb/ft ³
Sealability Method: Mod DIN 3535 at 580 psi N ² at 32 MPa load	<1.5 ml/min for 70 lb/ft ³
Certification	Certify to Grade

Notes:

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

+1 (800) 253-8003 (Toll-Free in USA)
+1 (216) 529-3777 (International)

www.graftech.com | www.grafoil.com
grafoil@graftech.com

Redefining limits

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