

SUPER GTO™ Flexible Graphite

TECHNICAL DATA SHEET 213

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

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

Product Overview

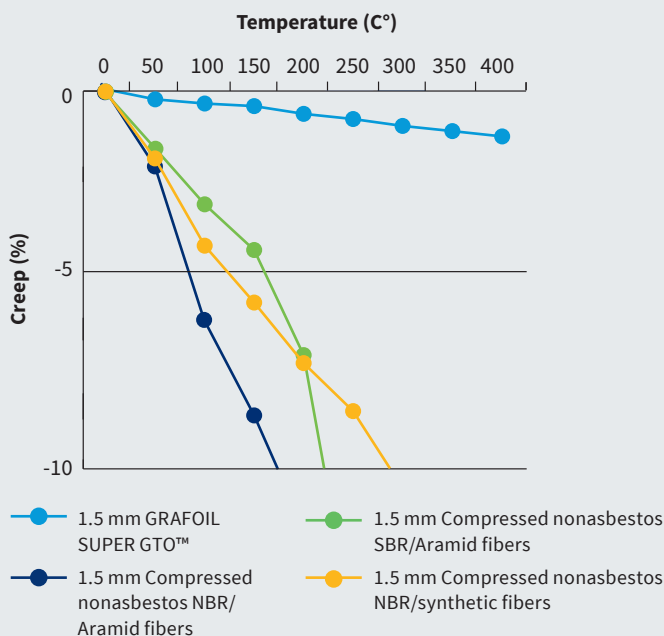
GRAFOIL® SUPER GTO™ flexible graphite is inhibited against oxidation and corrosion specifically for use in automotive and internal combustion applications.

Applications

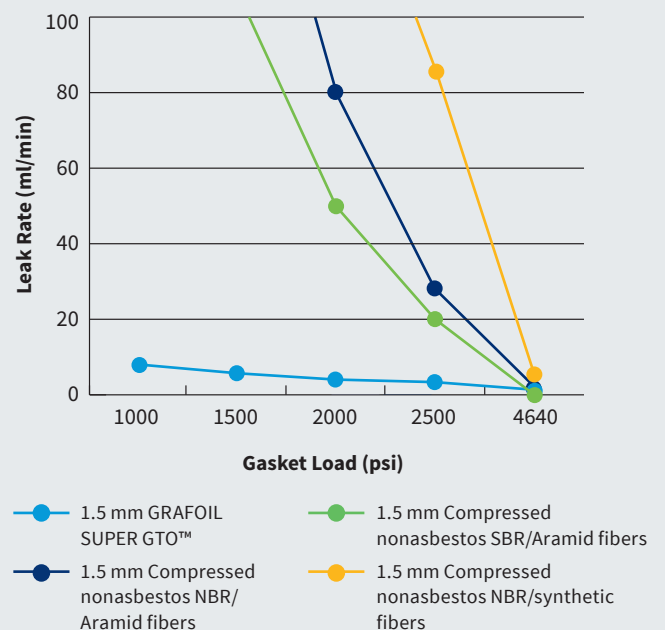
- Exhaust systems where oxidation resistance is critical



LOAD BEARING ABILITY
High Temperature Creep Relaxation (BS1-F125)



SEALABILITY (MODIFIED DIN3535)



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 of Laminate	0.010" (0.254 mm) 0.015" (0.38 mm) 0.020" (0.508 mm) 0.040" (1.016 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

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