

# 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
- SUPER GTO™ - 97% Graphite, FSA G-604-07 Method A
- GTB - 98% Graphite, FSA G-604-07 Method A

### Product Overview

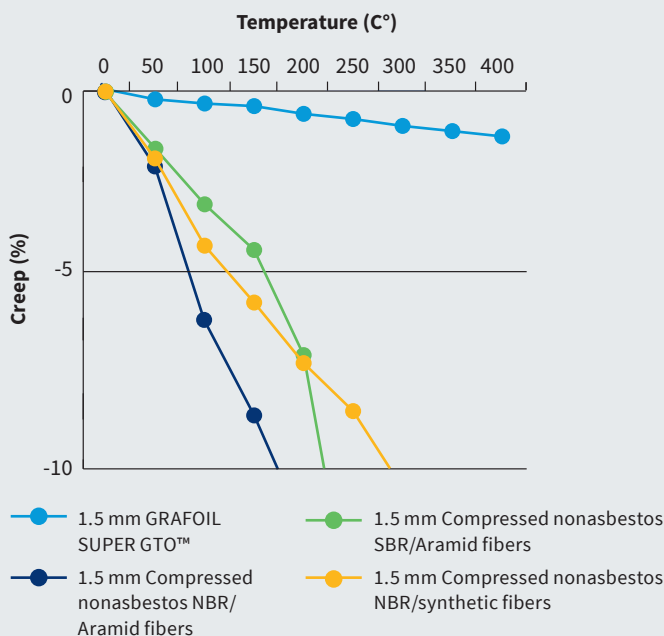
GRAFOIL® SUPER GTO™ flexible graphite is inhibited against oxidation and corrosion specifically for use in automotive and internal combustion applications.

### Applications

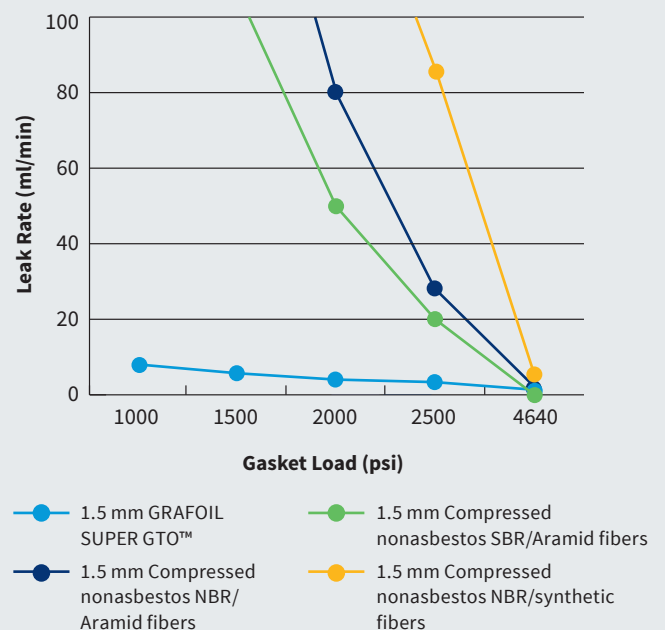
- Exhaust systems where oxidation resistance is critical



**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	0.015" (0.38 mm) 0.030" (0.76 mm)
Width	39.4" (1000 mm)
Length	100' (30.5 m)
Bulk Density	70 lb/ft <sup>3</sup> (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 <sup>3</sup>
Sealability Method: Mod DIN 3535 at 580 psi N <sup>2</sup> at 32 MPa load	<1.5 ml/min for 70 lb/ft <sup>3</sup>
Certification	Certify to Grade

Notes:

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

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