

GTJ Flexible Graphite

TECHNICAL DATA SHEET 437

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® GTJ flexible graphite is nuclear-certified, high-purity, and inhibited against oxidation and corrosion for use in nuclear applications. It is certified to meet the General Electric Nuclear Nonmetallic Material Specification D50YP12 (Rev 2), or can be certified as meeting the requirements of the SHELL specification MESC SPE 85/203.

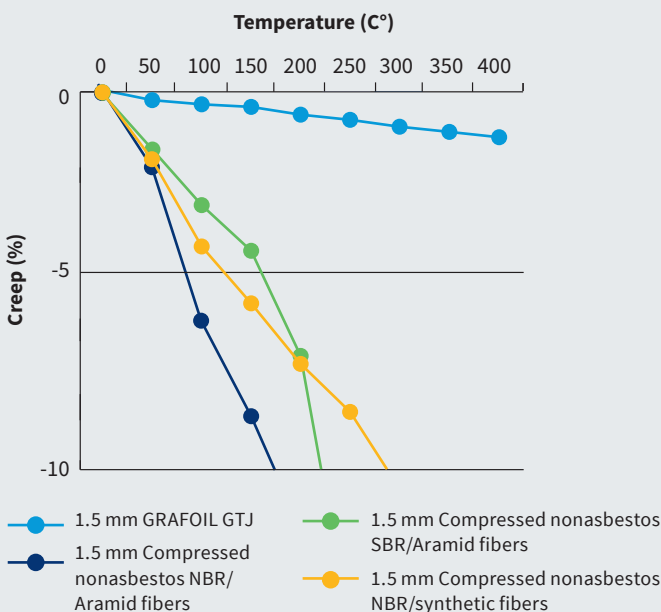
Applications

Applications that require an oxidation inhibitor

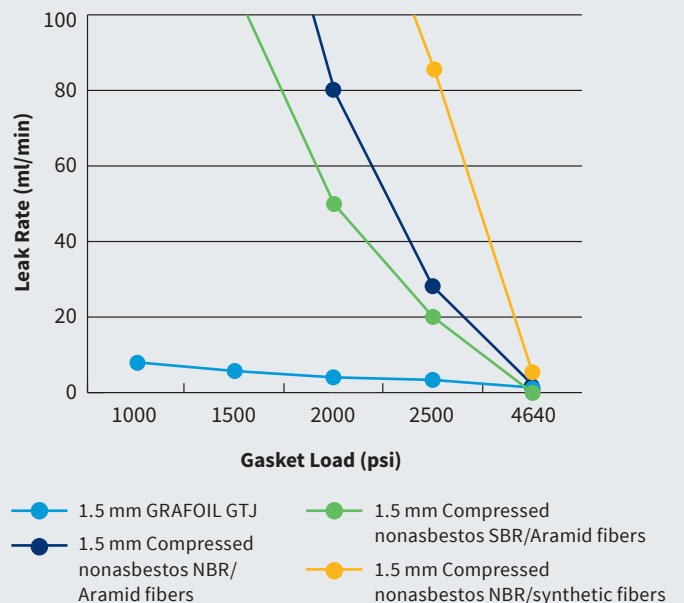
- Nuclear
- High temp, high purity



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	0.010" (0.25 mm) 0.015" (0.38 mm) 0.020" (0.51 mm) 0.030" (0.76 mm)
Width	24" (610 mm)
Length	100' (30.5 m)
Bulk Density	70 lb/ft ³ (1.12 g/cc)
Ash Content	0.5%
Carbon Content	99.5%
Leachable Chloride	<10 ppm
Phosphorus	500 ppm
Sulfur Content	450 ppm
Total Chlorides	<50 ppm
Total Fluorides	<50 ppm
Total Halogens	40 ppm
Total Nitrates	10 ppm
Total Nitrites	1 ppm
Mercury (Hg)	<0.5 ppm
Aluminum (Al)	15 ppm
Copper (Cu)	< 10 ppm
Temperature Use Range	-400°F to 975°F (-240°C to 525°C)
Certification	Certify to Grade

Notes:

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

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