

GTC Flexible Graphite

TECHNICAL DATA SHEET 002

Product Family - Single Layer Material (Service to 450°C)

- TG-411 99.998% Graphite
- GTA Nuclear 99.8% Graphite
- TG-312 99.8% Graphite

- GTE 98% Graphite
- GTC 97% Graphite
- TG-337 97% Graphite

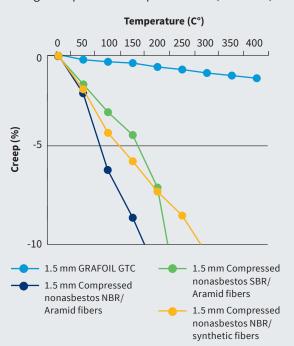
Product Overview

GRAFOIL® GTC flexible graphite is designed for use in most automotive or internal combustion applications.

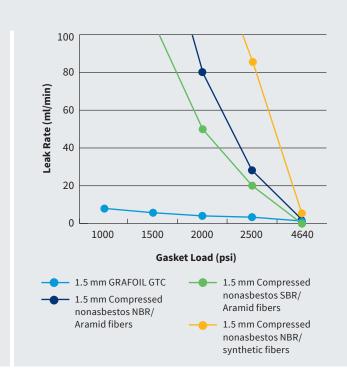
Applications

- · High-temp sealing applications where binder-based materials fail.
- Often combined with inserts to make head gaskets, exhaust manifold gaskets, EGR assemblies.

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.

www.grafoil.com www.neograf.com

GRAFOIL® GTC FLEXIBLE GRAPHITE

Typical Properties*

CHARACTERISTIC	TYPICAL VALUE
Thickness	0.015" (0.38 mm)
	0.020" (0.51 mm)
	0.025" (0.64 mm)
	0.030" (0.76 mm)
	0.035" (0.89 mm)
Width	39.4" (1000 mm)
Length	100' (30.5 m)
Bulk Density	70 lb/ft³ (1.12 g/cc)
Ash Content	3%
Carbon Content	97%
Moisture	0.1%
Leachable Chloride	<10 ppm
Oxidation Weight Loss	12%
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 840°F (-240°C to 450°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 N2 at 32 MPa load	<1.5 ml/min for 70 lb/ft³
Certification	Certify to Grade

Notes

+1 (800) 253.8003 (Toll-Free in USA) \mid +1 (216) 529.3777 (International) www.neograf.com \mid info@neograf.com

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