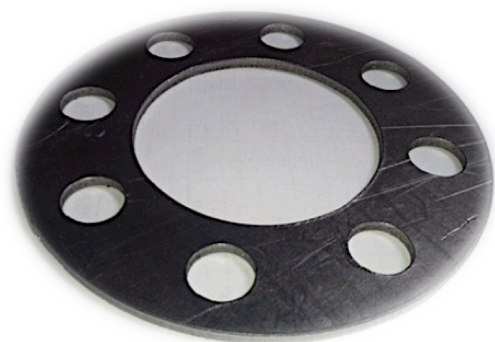


- GRAFOIL® Single Layer Inhibited flexible graphite materials are pure graphite compressed at high pressure to form the various thicknesses. *Nuclear* grade is also available.
- Inhibited against oxidation and corrosion for use in most industrial fluid sealing applications.
- Continuous operating temperature ranges from - 240°C to 525°C, also function up to 3000°C in vacuum or reducing environments.
- Chemical resistant to aggressive chemical.
- The most efficient sealing gaskets and packing
- Good and healthy replacement for asbestos
- Unlimited shelf Life

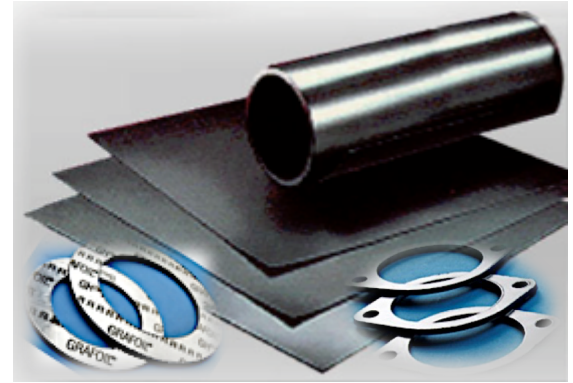


Product Family

Single Layer Material – Inhibited (Service to 525°C)
GTB – 98% Graphite, FSA G-604-07 Method A

Product Overview

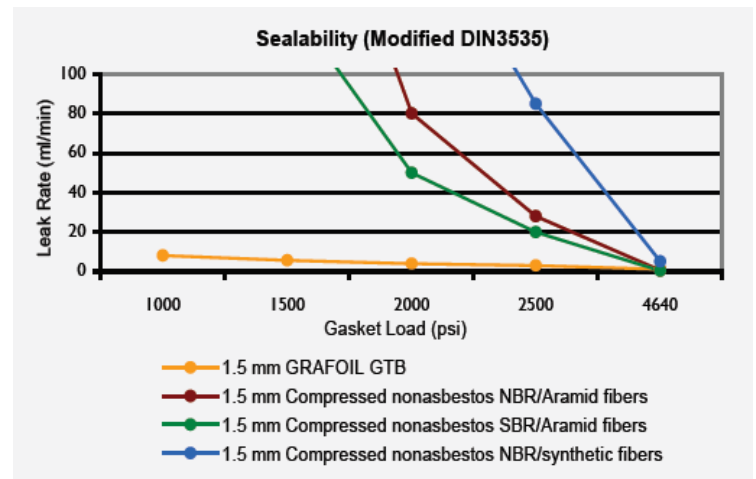
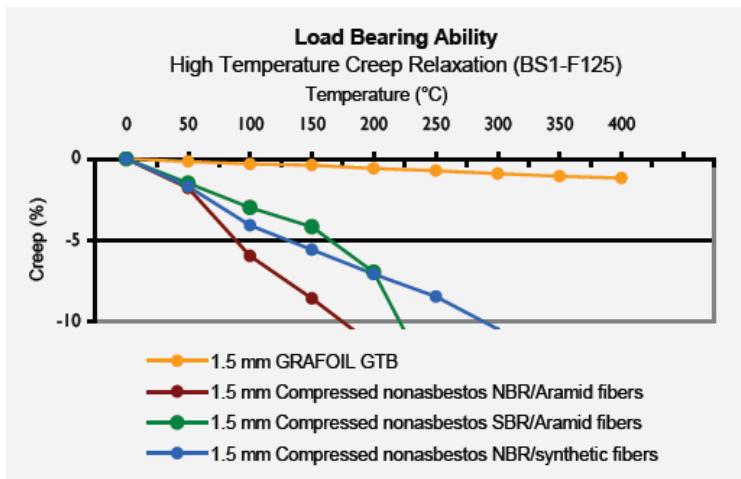
GRAFOIL® GTB flexible graphite is inhibited against oxidation and corrosion for use in most industrial fluid sealing applications.



Applications

Most standard industrial fluid sealing applications, including:

- Chemicals
- Petrochemicals
- Refinery
- Steam service



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* GRAFOIL® GTB

Characteristic	Typical Value
Thickness	0.005" (0.13 mm) 0.010" (0.25 mm) 0.015" (0.38 mm) 0.020" (0.51 mm) 0.025" (0.64 mm) 0.030" (0.76 mm) 0.040" (1.02 mm) 0.060" (1.52 mm)
Width	24" (610 mm) 39.4" (1000 mm) – Not 0.005" (0.13 mm)
Length	100' (30.5 mm)
Bulk Density	70 lb/ft ³ (1.12 g/cc) 62.4 lb/ft ³ (1.00 g/cc)
Ash Content	1.8%
Carbon Content	98.2%
Leachable Chloride	10 ppm
Sulfur Content	550 ppm
Oxidation Weight Loss	3%
Compressibility at 5000 psi (35 MPa) load	43% for 70 lb/ft ³
Recovery at 5000 psi (35 MPa) load	15% for 70 lb/ft ³
Tensile Strength	650 psi for 70 lb/ft ³
Operating Temperature	-400°F to 975°F (-240°C to 525°C)
Creep Relaxation Method: BSI-F 125 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/ft ³
Certification	Certify to Grade
Note: *Properties listed are typical and cannot be used as accept/reject specifications	

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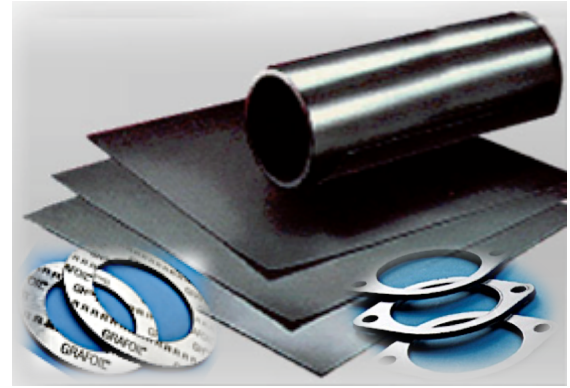
Telephone: +65 6748 3093 Fax: +65 6748 7202 Email: salesmgnt@everjoy.com.sg

Product Family

Single Layer Material – Inhibited (Service to 525°C)
GTJ – 99.8% Graphite

Product Overview

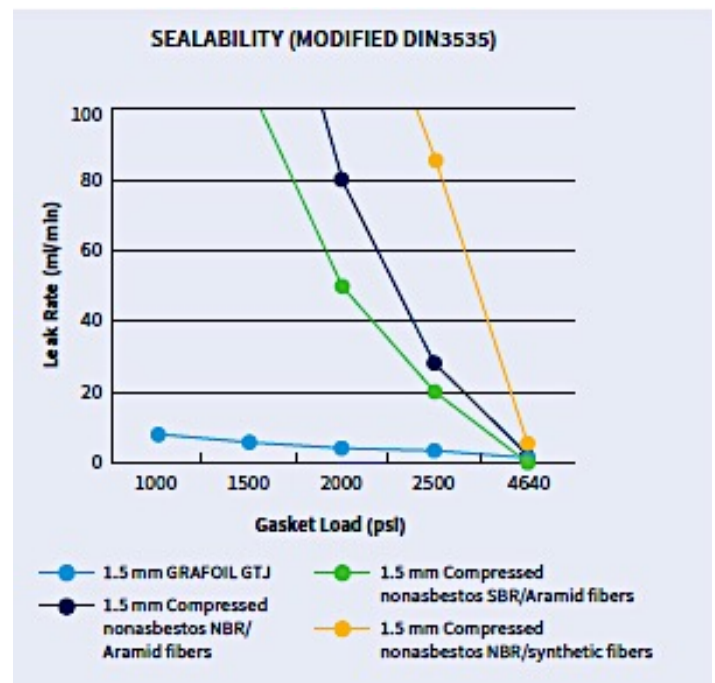
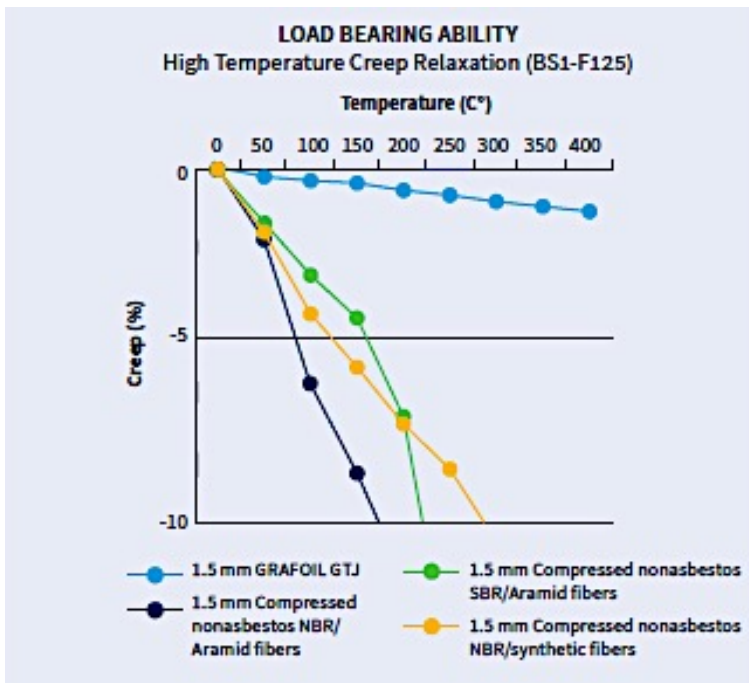
GRAFOIL® GTJ flexible graphite is a nuclear-certified and high-purity for use in nuclear applications. It is certified to meet General Electric Nuclear Nonmetallic Material Specification D50YP12 or Shell MESC SPE 85/203.



Applications

Applications that require an oxidation inhibitor

- Nuclear
- Semiconductor
- High temperature, High purity



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* GRAFOIL® GTJ

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 mm)
Bulk Density	70 lb/ft ³ (1.12 g/cc)
Ash Content	0.5%
Carbon Content	99.8%
Leachable Chloride	<10 ppm
Sulfur Content	450 ppm
Total Chlorides	<50 ppm
Total Fluorides	<50 ppm
Total Halogens	40 ppm
Total Nitrates	10 ppm
Mercury (Hg)	<0.5 ppm
Phosphorus	500 ppm
Aluminum (Al)	15 ppm
Copper (Cu)	<10 ppm
Operating Temperature	-400°F to 975°F (-240°C to 525C)
Certification	Certify to Grade

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

Product Family

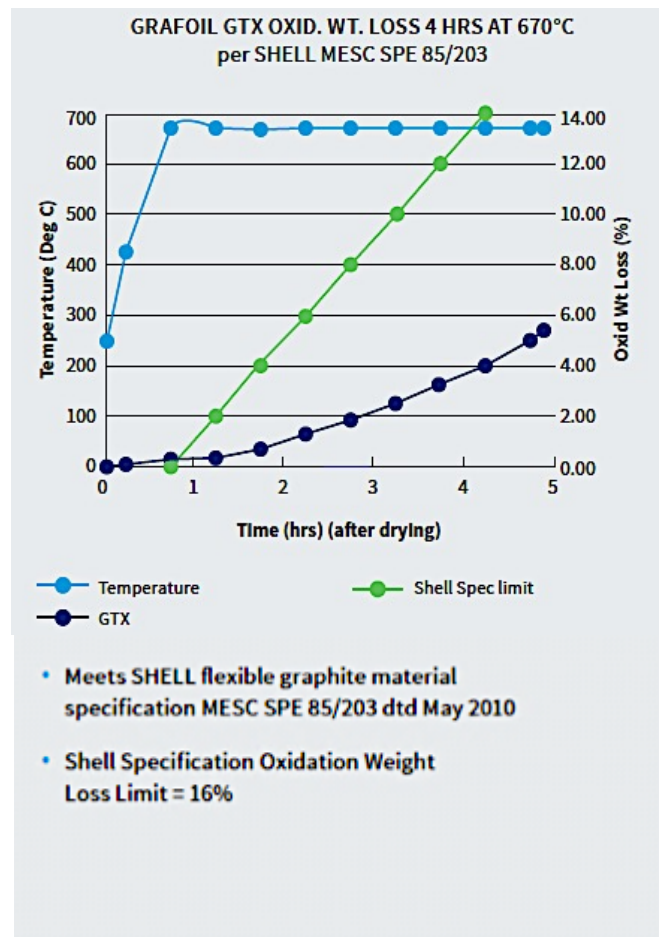
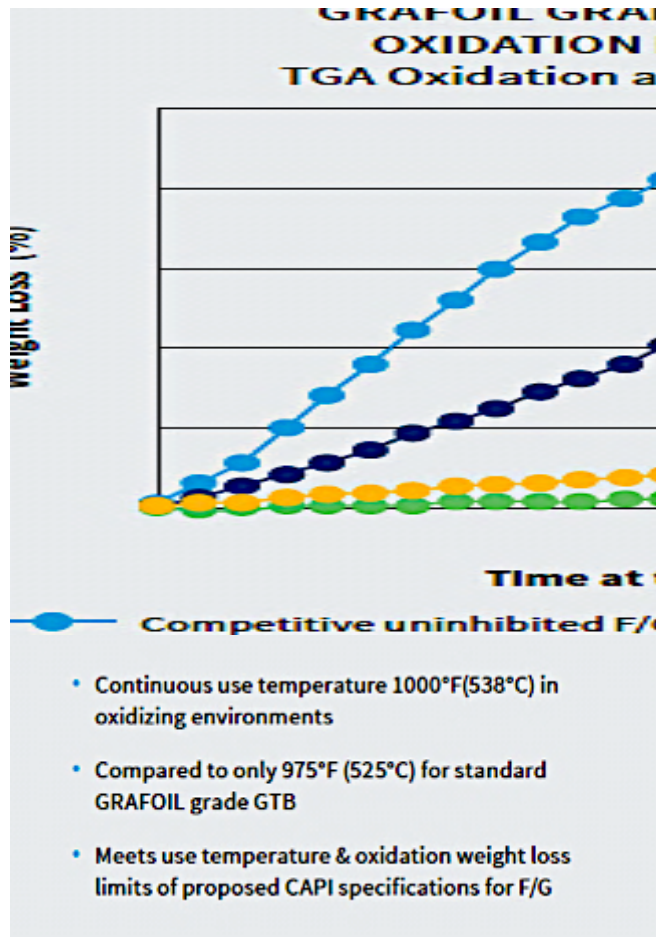
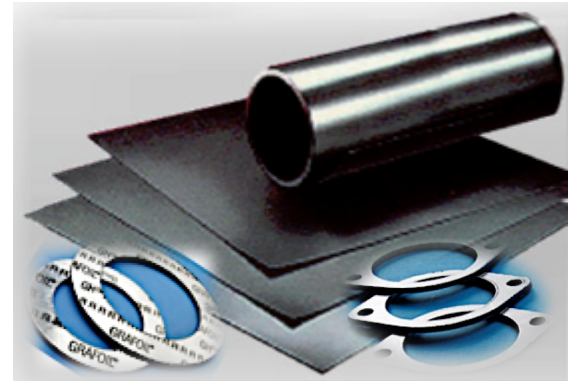
Single Layer Material – Inhibited (Service to 525°C)
GTX – 98% Graphite, SHELL MESC 85/203

Product Overview

GRAFOIL® GTX flexible graphite meets the requirement of SHELL specification MESC SPE 85/203 and has a service temperature of 538°C (1000°F). Meets PVRC-SRC flexible graphite specification and is rated as FG600 material.

Applications

- Heat exchanger gaskets
- Internal combustion gaskets
- Diesel exhaust gaskets
- Turbo charger gaskets



Typical Properties* GRAFOIL® GTX

Characteristic	Typical Value
Thickness	0.015" (0.38 mm) 0.020" (0.51 mm) 0.030" (0.76 mm)
Width	39.4" (1000 mm)
Length	100' (30.5 mm)
Bulk Density	70 lb/ft ³ (1.12 g/cc)
Ash Content**	1%
Leachable Chloride	< 10 ppm
Sulfur Content	750 ppm
Oxidation Weight Loss (593°C for 24 hours)	5%
Compressibility at 5000 psi (35 MPa) load	43% for 70 lb/ft ³
Recovery at 5000 psi (35 MPa) load	15% for 70 lb/ft ³
Operating Temperature	-400°F to 975°F (-240°C to 525°C)
Creep Relaxation Method: BSI-F 125 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/ft ³
Certification	Certify to Grade

Note:

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

**Ash content is corrected for oxidation inhibitor addition.

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Product Family

Single Layer Material – Inhibited (Service to 525°C)

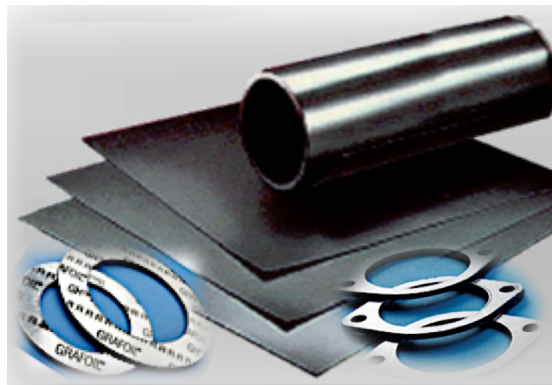
SUPER GTO™ – 97% Graphite, FSA G-604-07 METHOD A

Product Overview

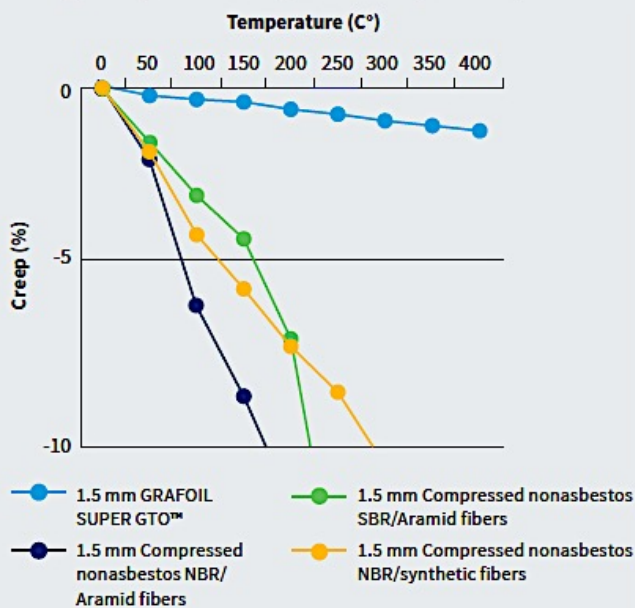
GRAFOIL® SUPER GTO™ flexible graphite is inhibited against oxidation and corrosion specifically for use in automotive and internal combustion applications

Applications

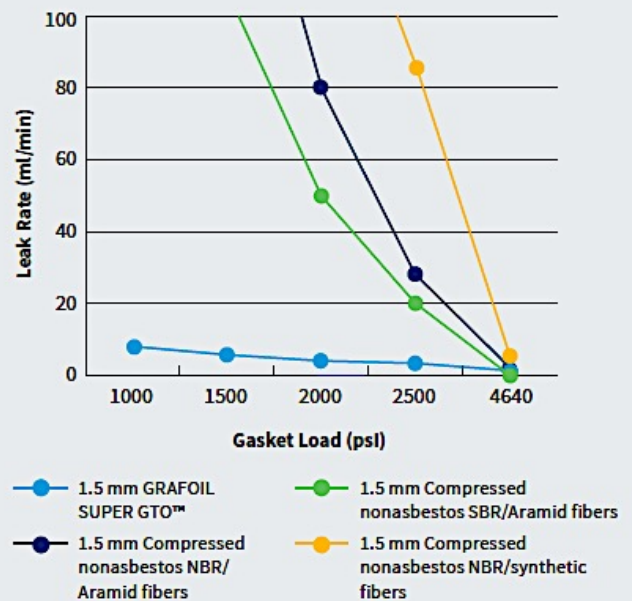
- Exhaust system where oxidation resistance is critical.



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* GRAFOIL® SUPER GTO™

Characteristic	Typical Value
Thickness	0.015" (0.38 mm) 0.030" (0.76 mm)
Width	39.4" (1000 mm)
Length	100' (30.5 mm)
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 at 5000 psi (35 MPa) load	13%
Operating Temperature	-400°F to 975°F (-240°C to 525°C)
Creep Relaxation Method: BSI-F 125 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/ft ³
Certification	Certify to Grade

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

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