

# SINGLE LAYER MATERIAL

## STANDARD GRADES

<b>GTA</b>	Non-inhibited, Nuclear 99.8% graphite
<b>GTJ</b>	Inhibited, Nuclear 99.8% graphite
<b>GTB</b>	Inhibited 98% graphite
<b>GTD</b>	SWG filler material 98.5% graphite
<b>GTX</b>	Highly inhibited

## GRAFOIL Grade GTB

GRAFOIL GTB flexible graphite sheet is a gasketing material containing no binders or fillers. Standard industrial grade GTB flexible graphite has an oxidation / corrosion inhibitor and is typically 98% graphite. Grade GTB is the facing material for grades GHR, GHE, GHP and GHW laminates.

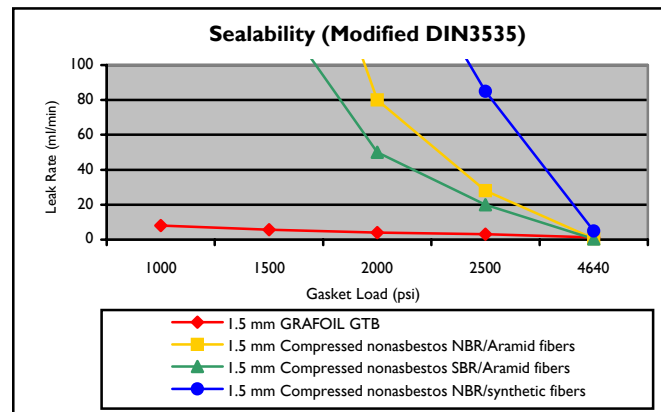
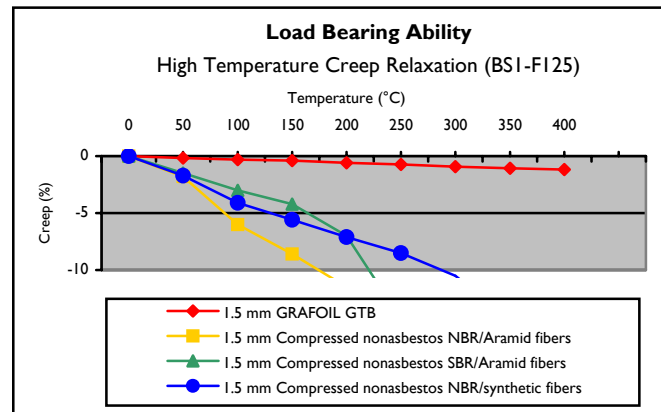


While maintaining an effective seal, GRAFOIL material exhibits virtually no creep relaxation. As a result, the need for periodic bolt tightening is greatly reduced.

### APPLICATIONS

Most standard industrial fluid sealing applications, including:

- Chemical
- Petrochemical
- Refinery
- Steam service



**Grade GTB Typical Properties<sup>1</sup>**

CHARACTERISTIC	TYPICAL PROPERTY
<b>Thickness</b>	0.005" (0.13 mm) Standard 0.010" (0.25 mm) Standard 0.015" (0.38 mm) Standard 0.020" (0.51 mm) Standard 0.025" (0.64 mm) Standard 0.030" (0.76 mm) Standard 0.040" (1.02 mm) Standard 0.060" (1.52 mm) Standard <i>Non-standard thicknesses may be available upon request.</i>
<b>Width</b>	24" (610 mm) Standard for 0.005", 0.010", 0.015", 0.020", 0.025", 0.030", 0.060" thick 39.4" (1000 mm) Standard for 0.010", 0.015", 0.020", 0.025", 0.030", 0.040", 0.060" thick <i>Non-standard widths may be available upon request.</i>
<b>Length</b>	100' (30.5 m) Standard <i>Non-standard lengths may be available upon request.</i>
<b>Bulk Density</b>	70 lb/ft <sup>3</sup> (1.12 g/cc) Standard for 0.005", 0.010", 0.015", 0.020", 0.025", 0.030", 0.060" thick 62.4 lb/ft <sup>3</sup> (1.00 g/cc) Standard for 0.020", 0.040", 0.060" thick <i>Non-standard densities may be available upon request.</i>
<b>Ash Content</b>	1.8% Typical
<b>Carbon Content</b>	98.2% Typical
<b>Leachable Chloride</b>	10 ppm Typical
<b>Sulfur Content</b>	550 ppm Typical
<b>Oxidation Weight Loss</b>	3% Typical
<b>Compressibility</b> at 5000 psi (35 MPa) load	43% Typical for 70 lb/ft <sup>3</sup>
<b>Recovery</b> after 5000 psi (35 MPa) load	15% Typical for 70 lb/ft <sup>3</sup>
<b>Tensile Strength</b>	650 psi Typical for 70 lb/ft <sup>3</sup>
<b>Temperature Use Range</b>	-400°F to 975°F (-240°C to 525°C)
<b>Creep Relaxation</b> Method: BSI-F125 at 6391 psi (44.1 MPa) load up to 400°C	<3% Typical for 70 lb/ft <sup>3</sup>
<b>Sealability</b> Method: Mod DIN 3535 at 580 psi N <sub>2</sub> at 32 MPa load	<1.5 ml/min Typical for 70 lb/ft <sup>3</sup>
<b>Certification</b>	Certify to Grade



**Corporate Headquarters**  
4015 Casilio Parkway  
Clarence, New York 14031  
Ph: 716-759-2222 • Fax 716-759-6425



**Canadian Division**  
5511 Steeles Ave West • Unit 5  
North York, Ontario M9L 1S7  
Ph: 416-741-0750 • Fax 416-741-0230