

# SINGLE LAYER MATERIAL

## STANDARD GRADES

**GTC** Non-inhibited, 96% carbon content

**SUPER GTO**<sup>®</sup> Highly inhibited

## GRAFOIL Grade SUPER GTO<sup>®</sup>

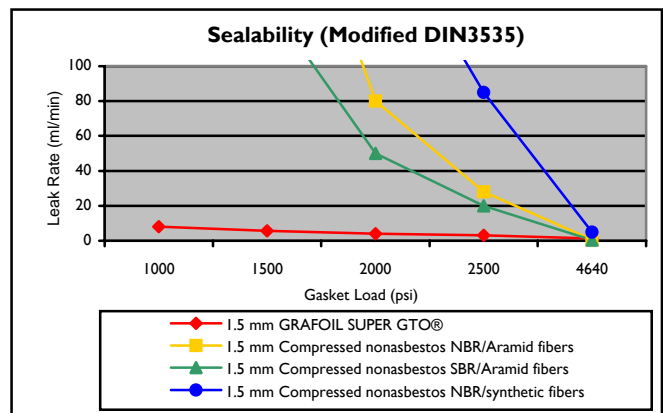
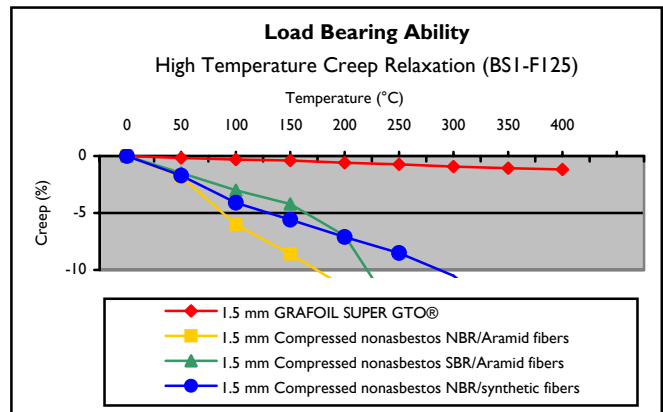
GRAFOIL SUPER GTO<sup>®</sup> flexible graphite sheet is a gasketing material containing no binders, which will seal a wide variety of liquids and gases over an extremely large temperature range (-240°C to 525°C). SUPER GTO<sup>®</sup> is specifically designed to resist oxidation and corrosion in high-temperature environments. Primary applications are in exhaust systems where oxidation resistance is critically important.

## APPLICATIONS

Exhaust systems where oxidation resistance is critical



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



**Grade SUPER GTO® Typical Properties<sup>1</sup>**

<b>CHARACTERISTIC</b>	<b>TYPICAL PROPERTY</b>
<b>Thickness</b>	0.015" (0.38 mm) Standard 0.030" (0.76 mm) Standard <i>Non-standard thicknesses may be available upon request.</i>
<b>Width</b>	39.4" (1000 mm) Standard <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 <i>Non-standard densities may be available upon request.</i>
<b>Ash Content</b>	3% Typical
<b>Carbon Content</b>	97% Typical
<b>Moisture</b>	0.10% Typical
<b>Leachable Chloride</b>	10 ppm Typical
<b>Oxidation Weight Loss</b>	3% Typical
<b>Compressibility</b> at 5000 psi (35 MPa) load	43% Typical
<b>Recovery</b> after 5000 psi (35 MPa) load	13% Typical
<b>Tensile Strength</b>	650 psi Typical
<b>Temperature Use Range</b>	-400°F to 975°F (-240°C to 525°C)
<b>Creep Relaxation</b> Method: BSI-FI 25 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

<sup>1</sup>Properties listed are typical and cannot be used as accept/reject specifications. Specifications are listed under Technical Bulletin 187.