

SINGLE LAYER MATERIAL

STANDARD GRADES

GTC Non-inhibited, 96% carbon content

SUPER GTO[®] Highly inhibited

GRAFOIL Grade GTC

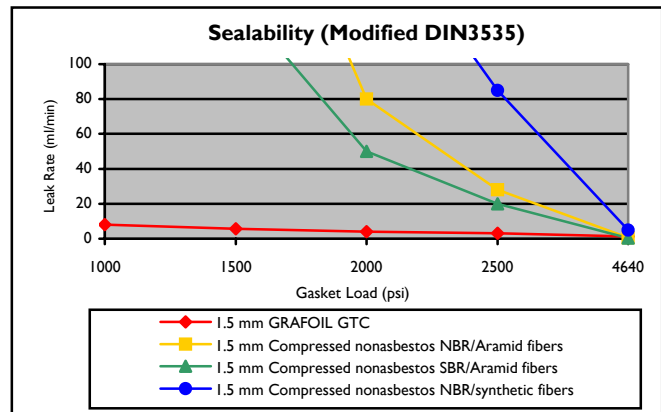
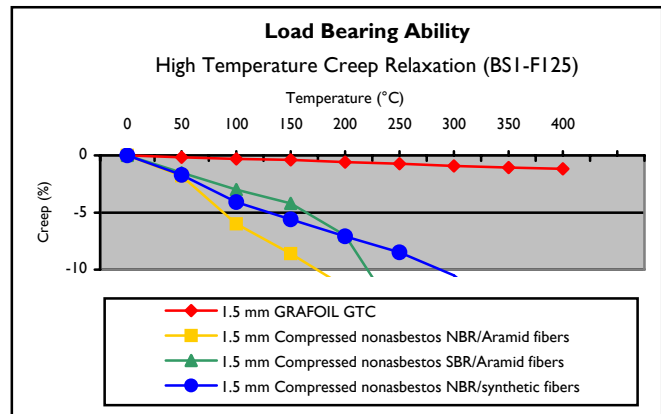
GRAFOIL GTC flexible graphite sheet is a gasketing material containing no binders or fillers, which will seal a wide variety of liquids and gases over an extremely large temperature range. GTC can be used in a number of automotive or internal combustion applications. Additionally, GTC's ability to conform to less-than-ideally-finished surfaces is a benefit in aftermarket gasket applications.

APPLICATIONS

- High-temp sealing applications where binder-based materials fail.
- Often combined with inserts to make head gaskets, exhaust manifold gaskets, EGR assemblies and filler material for heat shields



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 GTC Typical Properties¹

CHARACTERISTIC	TYPICAL PROPERTY
Thickness	0.015" (0.38 mm) Standard 0.020" (0.51 mm) Standard 0.025" (0.64 mm) Standard 0.030" (0.76 mm) Standard 0.035" (0.89 mm) Standard <i>Non-standard thicknesses may be available upon request.</i>
Width	39.4" (1000 mm) Standard <i>Non-standard widths may be available upon request.</i>
Length	100' (30.5 m) Standard <i>Non-standard lengths may be available upon request.</i>
Bulk Density	70 lb/ft ³ (1.12 g/cc) Standard <i>Non-standard densities may be available upon request.</i>
Ash Content	3% Typical
Carbon Content	97% Typical
Moisture	0.1% Typical
Leachable Chloride	<10 ppm Typical
Oxidation Weight Loss	12% Typical
Compressibility at 5000 psi (35 MPa) load	43% Typical
Recovery after 5000 psi (35 MPa) load	13% Typical
Tensile Strength	650 psi Typical
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% Typical for 70 lb/ft ³
Sealability Method: Mod DIN 3535 at 580 psi N ₂ at 32 MPa load	<1.5 ml/min Typical for 70 lb/ft ³
Certification	Certify to Grade

¹Properties listed are typical and cannot be used as accept/reject specifications. Specifications are listed under Technical Bulletin I47.