

GTC Flexible Graphite Sheet

Technical Data Sheet 002

Single Layer Material

- GTC - Non-inhibited, 96% carbon content
- SUPER GTO® - Highly inhibited

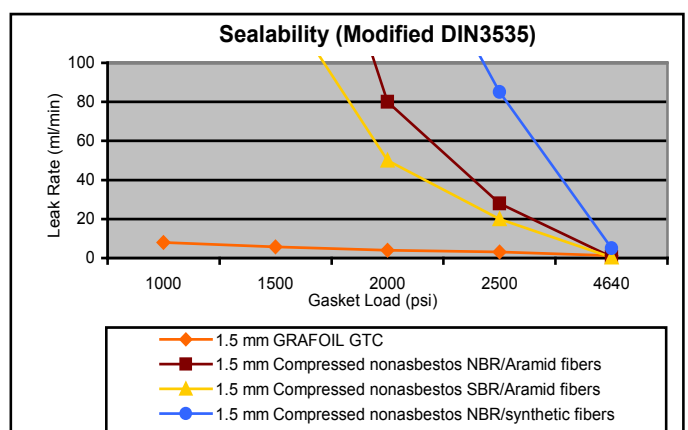
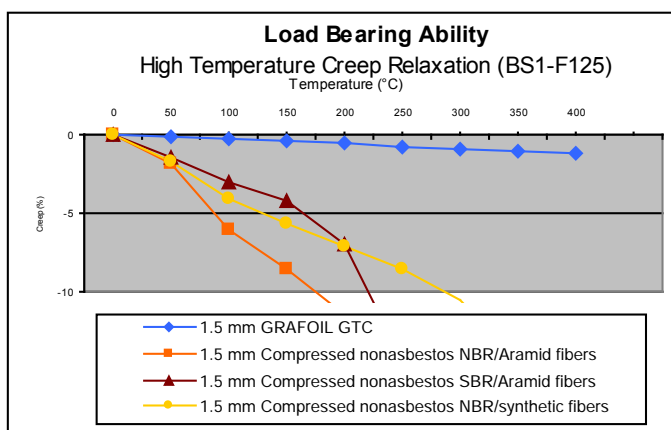
Product Overview

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



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*

Characteristic	Value
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 Non-standard thicknesses may be available upon request.
Width	39.4" (1000 mm) Standard Non-standard widths may be available upon request.
Length	100' (30.5 m) Standard Non-standard lengths may be available upon request.
Bulk Density	70 lb/ft ³ (1.12 g/cc) Standard Non-standard densities may be available upon request.
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

Notes:

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

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Redefining limits

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