

SUPER GTO® Flexible Graphite Sheet

Technical Data Sheet 213

Single Layer Material

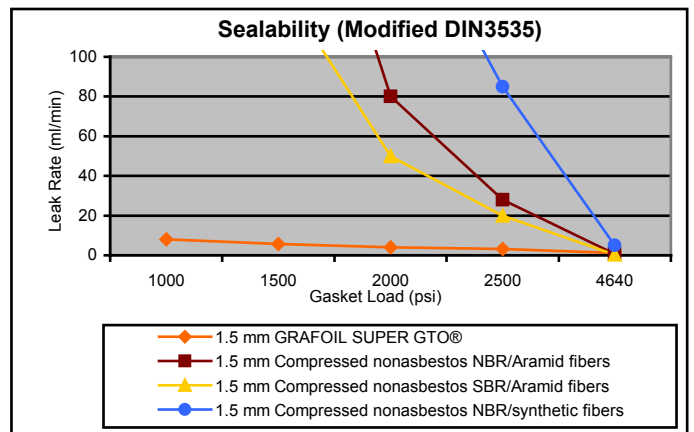
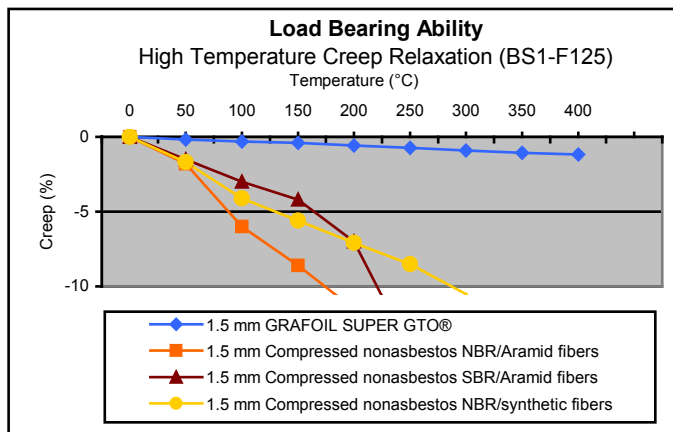
- GTC - Non-inhibited, 96% carbon content
- SUPER GTO - Highly inhibited

Product Overview

GRAFOIL SUPER GTO 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 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.

Typical Properties*

Characteristic	Value
Thickness	0.015" (0.38 mm) Standard 0.030" (0.76 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	0.10% Typical
Leachable Chloride	10 ppm Typical
Oxidation Weight Loss	3% 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 975°F (-240°C to 525°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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