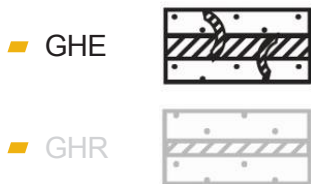


GHE Laminate

Technical Data Sheet 131

Metal Reinforced Laminates

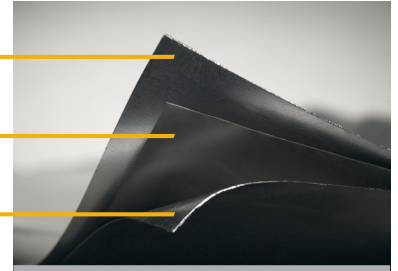


□
□

316 or 316L stainless steel* tang metal insert
- Pierced to provide protruding tangs
- 0.004" thick (prior to tanging)
(per ASTM A-240)

GRAFOIL Grade GTB
(per Technical Data Sheet 436)

GRAFOIL Grade GTB
(per Technical Data Sheet 436)



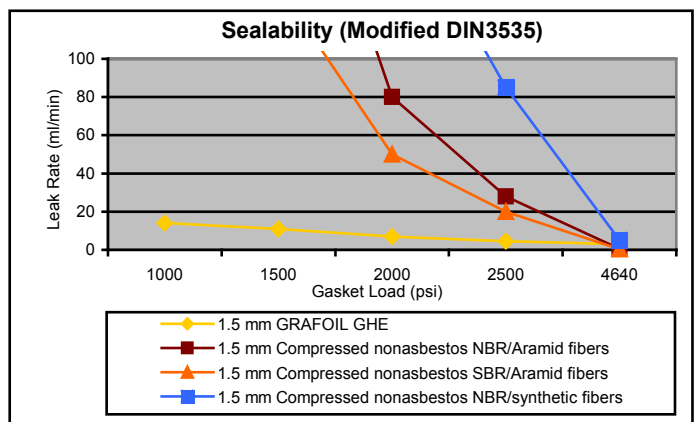
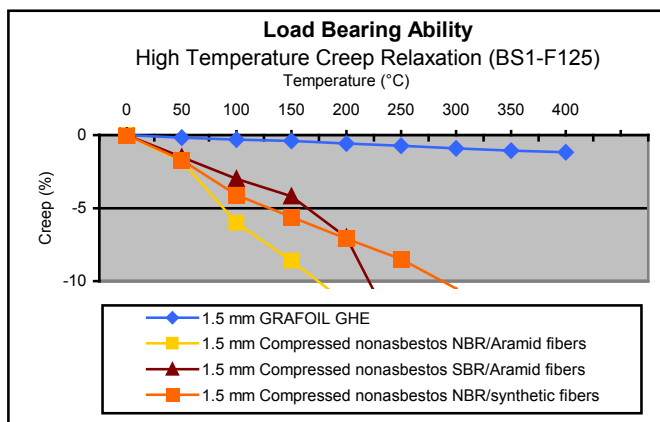
Product Overview

GRAFOIL Grade GHE laminate is made with GTB flexible graphite mechanically bonded to both faces of a 316 or 316L stainless steel tang metal insert. Surface identifiable, laminate is branded with the GRAFOIL grade and source guarantee.

Applications

Grade GHR is suitable for standard industrial fluid sealing applications.

- Chemical
- Petrochemical
- Refinery
- Steam Service
- Cryogenic Applications
- ASME Class 150 & 300 Flanges



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 of Laminate	0.064" (1.63 mm) Standard 0.124" (3.15 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	39.4" (1000 mm) Standard 100' (30.5 m) Standard (available for ≤0.064" thick) Non-standard lengths may be available upon request
Bulk Density (Graphite)	70 lb/ft ³ (1.12 g/cc) Standard Non-standard densities may be available upon request
Compressibility at 5000 psi (35 MPa) load	36% Typical for 0.064" thick
Recovery after 5000 psi (35 MPa) load	18% Typical for 0.064" thick
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
Temperature Use Range	-400°F to 975°F (-240°C to 525°C)
Resistance in #3 Oil Thickness increase Weight change	<12% Typical <35% Typical
Resistance in #1 Oil Thickness increase Weight change	<8% Typical <33% Typical
Certification	Certify to Grade

Notes:

* Because teeth of the tanged metal interlayer may indent metals softer than 316/316 Stainless Steel, Grade GHE gaskets are not normally recommended for use with glass, bronze, aluminum or other softer metal flanges.

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

ASME Gasket Factors

- "m" Factor: 2
- "y" Stress: 2,500 psi (17.28 MPa)
- Max Gasket Unit Load: 24,000 psi (165.87 MPa)

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Redefining limits

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