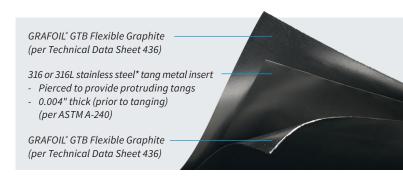


GHE Metal-Reinforced Laminate

TECHNICAL DATA SHEET 131

Product Family - Laminates (Metal-Reinforced)

- GHR GTB with Flat Stainless Steel
- GHE GTB with Tanged Stainless Steel



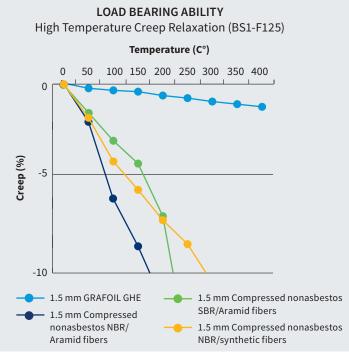
Applications

GHE material is suitable for standard industrial fluid sealing applications.

- Chemical
- Petrochemcial
- Refinery

- Steam Service
- Cryogenic Applications
- ASME Class 150 & 300 Flanges

Aramid fibers



100 80 Leak Rate (ml/min) 60 40 20 0 2500 1000 1500 2000 4640 Gasket Load (psi) 1.5 mm GRAFOIL GHE 1.5 mm Compressed nonasbestos SBR/Aramid fibers 1.5 mm Compressed nonasbestos NBR/ 1.5 mm Compressed

nonasbestos NBR/synthetic fibers

SEALABILITY (MODIFIED DIN3535)

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

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GRAFOIL® GHE METAL-REINFORCED LAMINATE

Typical Properties**

CHARACTERISTIC	TYPICAL VALUE
Thickness of Laminate	0.062" (1.57 mm)
	0.125" (3.15 mm)
Width	39.4" (1000 mm)
Length	39.4" (1000 mm)
	100' (30.5 m) (≤ 0.064" thickness)
Bulk Density (Graphite)	70 lb/ft³ (1.12 g/cc)
Compressibility at 5000 psi (35 MPa) load	36% for 0.064" thick
Recovery after 5000 psi (35 MPa) load	18% for 0.064" thick
Creep Relaxation Method: BSI-F125 at 6391 psi (44.1 MPa) load up to 400°C	<3% for 70 lb/ft³
Sealability Method:	<1.5 ml/min for 70 lb/ft³
Mod DIN 3535 at 580 psi N ² at 32 MPa load	
Temperature Use Range	-400°F to 975°F (-240°C to 525°C)
Resistance in #3 Oil	
Thickness increase	<12%
Weight change	<35%
Resistance in #1 Oil	
Thickness increase	<8%
Weight change	<33%
Certification	Certify to Grade

Notes

ASME Gasket Factors

• "m" Factor: 2

• "y" Stress: 2,500 psi (17.28 MPa)

• Max Gasket Unit Load: 24,000 psi (165.87 MPa)

^{*} Because teeth of the tanged metal interlayer may indent metals softer than 316/316L 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.

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