

GHW Non-Metal Reinforced Laminate

Technical Data Sheet 142

Product Family - Laminates (Non-Metal Reinforced)

- GHP - GTB with Plastic Insert
- GHN - TG-337 with Plastic Insert
- GHW - GTB with Woven Glass Fiber Insert
- GRAFKOTE® - GTB with Plastic Facing

Product Overview

GRAFOIL® GHW non-metal reinforced laminate consists of GRAFOIL® GTB flexible graphite thermally bonded to both faces of a high-temperature continuous woven glass fiber insert.

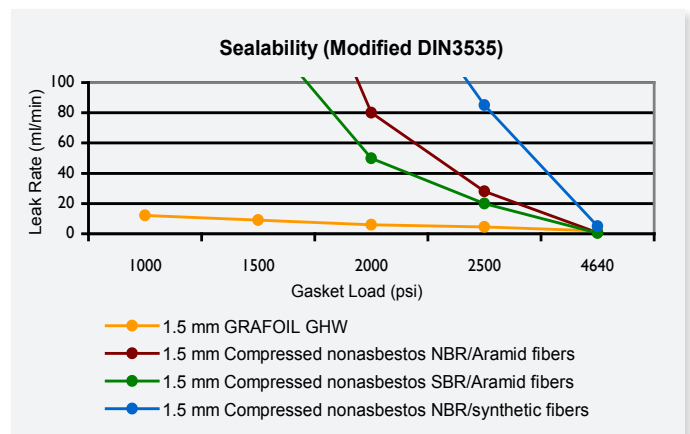
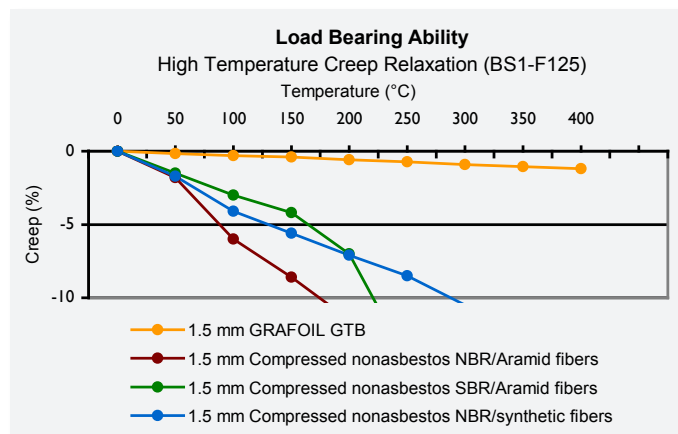
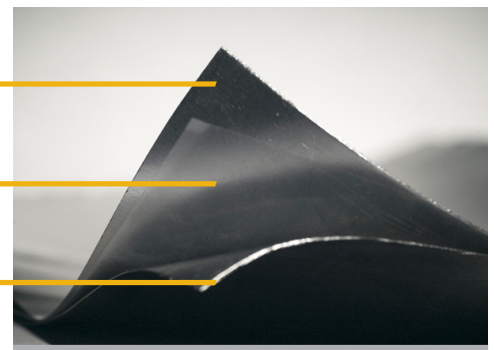
Applications

- Valves
- Pumps
- Pipe Flanges/ ASME/ API/ DIN flanges
- Glass-lined or low load flange equipment
- Steam traps
- Heat exchangers
- Compressors

GRAFOIL® GTB Flexible Graphite
(per Technical Data Sheet 436)

0.0025" high-temperature, PTFE impregnated,
continuous woven glass fiber insert

GRAFOIL® GTB Flexible Graphite
(per Technical Data Sheet 436)



Advantages of GRAFOIL® GHW Non-Metal Reinforced Laminates

- Compatible with a wide range of chemicals
- Maximum continuous use temperature 400°C (750°F)
- No shelf life
- Material availability in rolls allows for maximum material utilization
- Cost effective
- Easily cut
- Contains no hazardous materials
- Robust enough for easy handleability and durability
- Superior to non-asbestos fiber sheet in every characteristic (Temp, Creep, Recovery and Sealability)

Typical Properties*

Characteristic	Typical Value
Thickness of Laminate	0.062" (1.57 mm) 0.122" (3.10 mm)
Width	40" (1016 mm) 60" (1524 mm)
Length	60" (1524 mm)
Bulk Density (Graphite)	70 lb/ft ³ (1.12 g/cc)
Compressibility at 5000 psi (35 MPa) load	40%
Recovery after 5000 psi (35 MPa) load	15%
Creep Relaxation Method: BSI-F125 at 6391 psi (44.1 MPa) load up to 400°C	<3% for 70 lb/ft ³
Sealability Method: Mod DIN 3535 at 580 psi N ₂ at 32 MPa load	<1.5 ml/min for 70 lb/ft ³
Certification	Certify to Grade

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

ASME Gasket Factors

- "m" Factor: 2
- "y" Stress: 900 psi (6.22 MPa)
- Max Gasket Unit Load: 24,000 psi (165.87 MPa)
- Max Operating Pressure: Rated for ASME class 150 or class 300 flanges

+1 (800) 253-8003 (Toll-Free in USA)
+1 (216) 529-3777 (International)

www.graftechAET.com | info@graftechAET.com

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