

GHP Non-Metal Reinforced Laminate

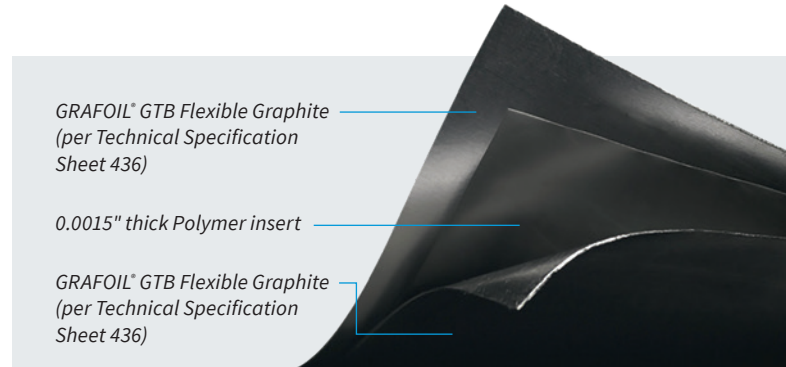
TECHNICAL DATA SHEET 132

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® GHP non-metal reinforced laminate consists of GRAFOIL® GTB flexible graphite thermally bonded to both faces of a plastic insert.

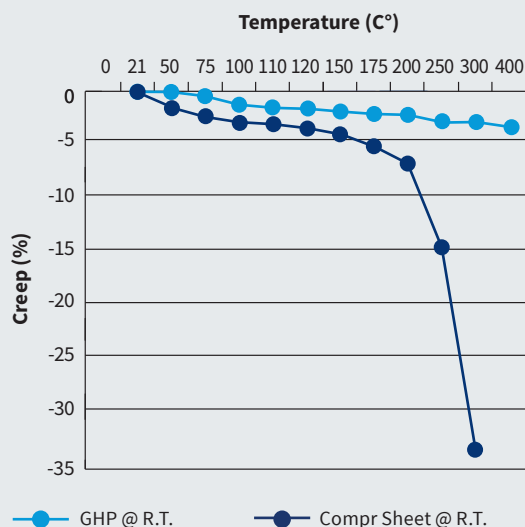


Applications

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

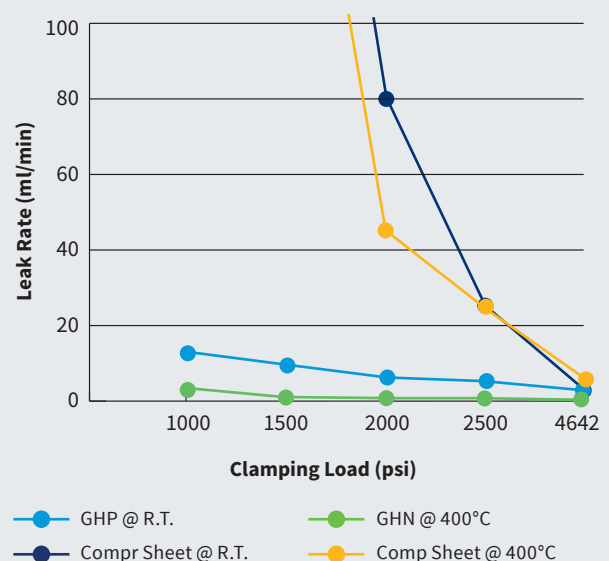
LOAD BEARING ABILITY

High Temperature Creep Relaxation (BS1-F125)



LEAK RATE VS CLAMPING LOAD

Sealability @ Room Temperature & 400°C



Advantages of GRAFOIL® GHP Non-Metal Reinforced Laminate

- 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	0.032" (0.81 mm) 0.062" (1.57 mm)
Width	39.4" (1000 mm)
Length	39.4" (1000 mm) 100' (30.5 m)
Bulk Density (Graphite)	70 lb/ft ³ (1.12 g/cc)
Compressibility at 5000 psi (35 MPa) load	44%
Recovery after 5000 psi (35 MPa) load	14%
Creep Relaxation Method: BSI-F125 at 6391 psi (44.1 MPa) load up to 400°C	<4%for 70 lb/ft ³
Sealability Method: Mod DIN 3535at 580 psi N2 at 32 MPa load	<1.5 ml/minfor 70 lb/ft ³
Tensile Strength	765 psi (5.3 MPa)
Certification	Certify to Grade

Notes:

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

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