

GHW Non-Metal Reinforced Laminate

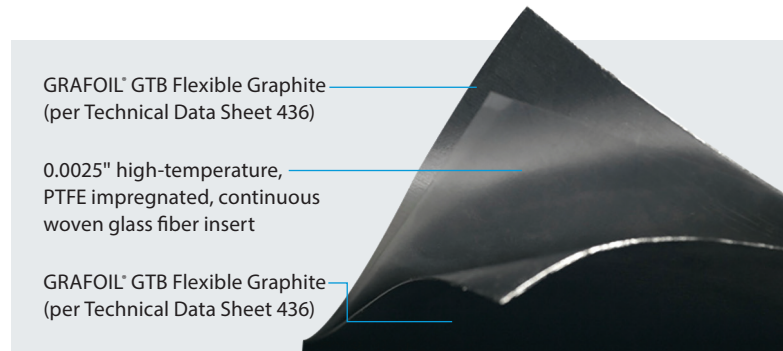
TECHNICAL DATA SHEET 142

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

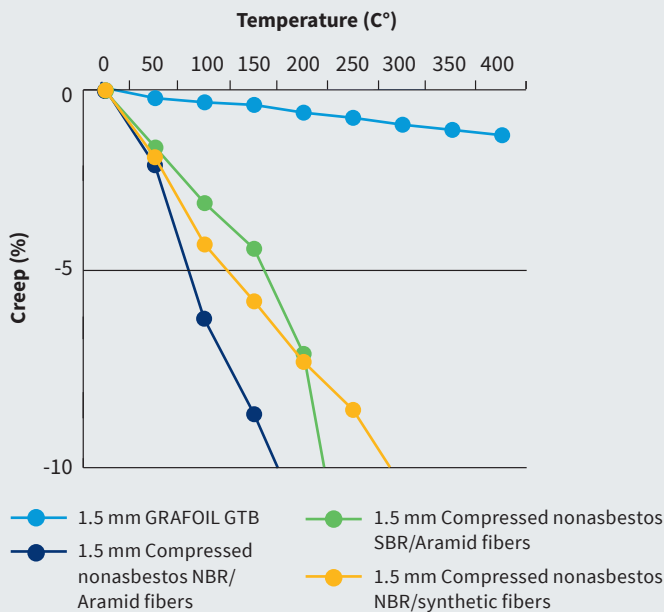
Applications

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

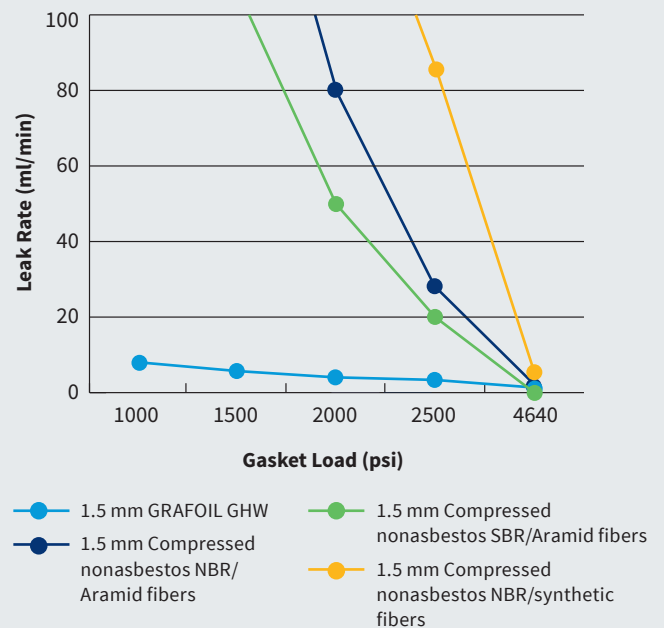


LOAD BEARING ABILITY

High Temperature Creep Relaxation (BS1-F125)



SEALABILITY (MODIFIED DIN3535)



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 N2 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.neograf.com | info@neograf.com

©2020 NeoGraf Solutions, LLC (NGS). This information is based on data believed to be reliable, but NGS makes no warranties, express or implied, as to its accuracy and assumes no liability arising out of its use. The data listed falls within the normal range of product properties, but should not be used to establish specification limits or used alone as the basis of design. NGS's liability to purchasers is expressly limited to the terms and conditions of sale. eGRAF®, NeoNxGen®, SPREADERSHIELD™, HITHERM™, GRAFGUARD®, GRAFOIL®, GRAF+® and GrafHX® are registered trademarks of NeoGraf Solutions, LLC. eGRAF®, NeoNxGen®, SPREADERSHIELD™, HITHERM™, GRAFGUARD®, GRAFOIL®, GRAF+® and GrafHX® products, materials, and processes are covered by several US and foreign patents. For patent information visit www.neograf.com.

6.15.2020