

# ALL GRAFOIL® LAMINATES

## STANDARD GRADES

**GHL**



## GRAFOIL Grade GHL

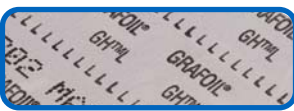
GRAFOIL Grade GHL is a laminate made with GRAFOIL Grade GTB flexible graphite.

- Laminate thicknesses > 0.060" will be adhesively bonded to final thickness.
- Laminate thicknesses <= 0.060" will be adhesively bonded to achieve final thickness OR produced as single-layer to achieve final thickness.

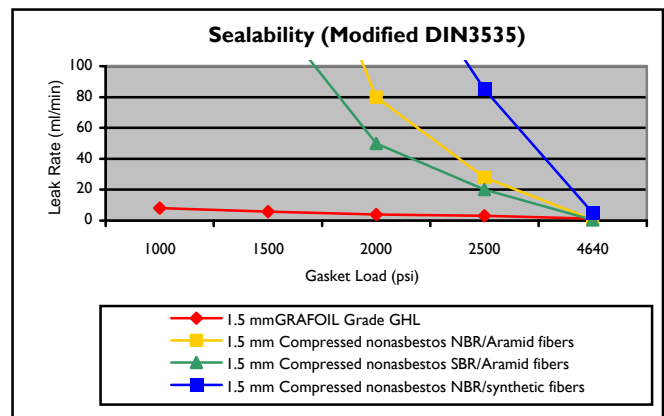
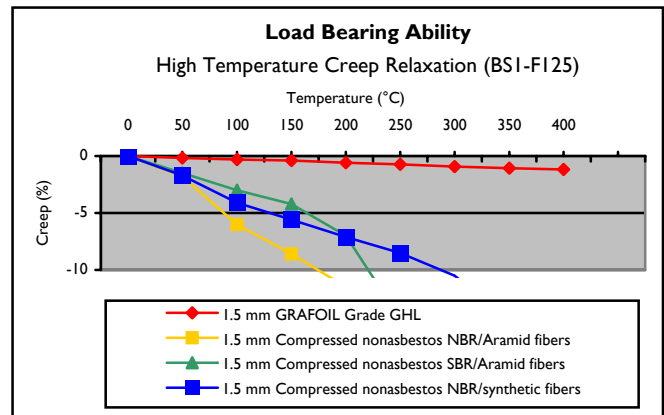
Typically, Grade GHL is used where a thick GTB material is required, often as a replacement for old style, thick gaskets or to fill gaps caused by worn, out-of-flat flanges. Surface identifiable, laminate is branded with the GRAFOIL grade and source guarantee.

## APPLICATIONS

- Grade GHL is suitable for most standard fluid sealing applications where standard GRADE GTB is too thin.
- Chemical
- Petrochemical
- Refinery
- Steam Service
- 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.*



**Grade GHL Typical Properties<sup>1</sup>**

Laminate Construction:

1. GRAFOIL Grade GTB (per Technical Bulletin 436)  
*micro-thin, phenolic-based adhesive*
2. GRAFOIL Grade GTB (per Technical Bulletin 436)

<b>CHARACTERISTIC</b>	<b>TYPICAL PROPERTY</b>
<b>Thickness of Laminate</b>	0.030" (0.94 mm) Standard 0.060" (1.19 mm) Standard 0.120" (1.19 mm) Standard <i>Non-standard thicknesses may be available upon request</i>
<b>Width</b>	24" (610 mm) Standard <i>Non-standard widths may be available upon request</i>
<b>Length</b>	24" (610 mm) Standard 100' (30.5 m) Standard <i>Non-standard lengths may be available upon request.</i>
<b>Bulk Density (Graphite)</b>	70 lb/ft <sup>3</sup> (1.12 g/cc) Standard <i>Non-standard densities may be available upon request</i>
<b>Compressibility</b> at 5000 psi (35 MPa) load	43% Typical
<b>Recovery</b> after 5000 psi (35 MPa) load	13% Typical
<b>Creep Relaxation</b> Method: BSI-FI 25 at 6000 psi (40 MPa) load up to 400°C	<3% Typical for 70 lb/ft <sup>3</sup>
<b>Sealability</b> Method: Mod DIN 3535 at 580 psi N <sub>2</sub> at 32 MPa load	<1.5 ml/min Typical for 70 lb/ft <sup>3</sup>
<b>Temperature Use Range</b>	-400°F to 975°F (-240°C to 525°C)

<sup>1</sup> Properties listed are typical and cannot be used as accept/reject specifications. Specifications are listed under Technical Bulletin 207.