GRAFOIL® SEALING SOLUTIONS

non-standard internal combustion

Grade GHJ

TECHNICAL BULLETIN 017

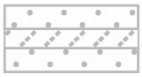
METAL REINFORCED LAMINATES

STANDARD GRADES

GHH

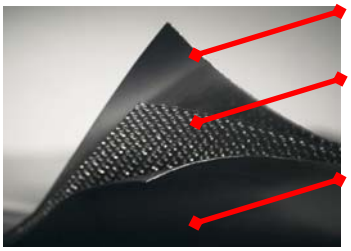
GHJ

TG-251

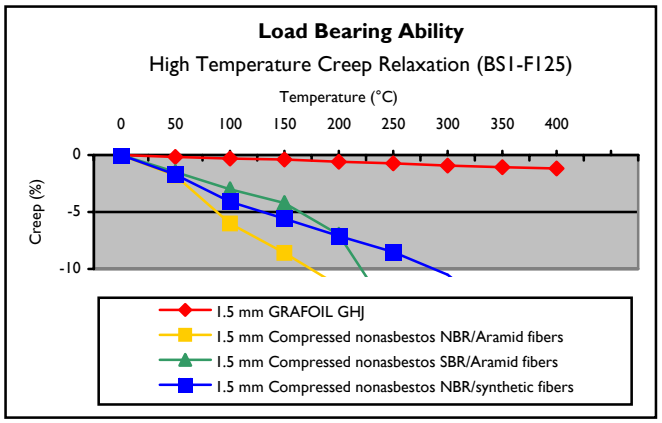


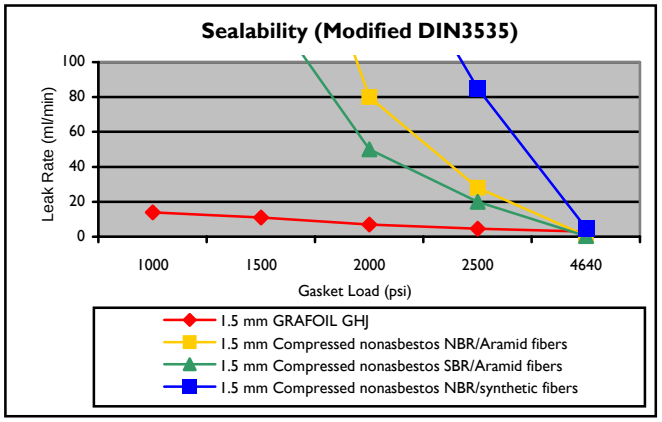
GRAFOIL Grade GHJ

GRAFOIL Grade GHJ is a laminate made with GRAFOIL Grade GTC flexible graphite mechanically attached to a perforated, low-carbon steel core.



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





APPLICATIONS

- Exhaust manifold gaskets
- Exhaust sealing
- Gasoline/diesel head gaskets
- EGR valve sealing
- Turbo charger gaskets

For additional information, contact the GrafTech Sales Office: +1 (800) 253-8003 (Toll-Free in USA), +1 (216) 529-3777 (International), +1 (216) 529-3922 (Fax)

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GRAFTech International

Grade GHJ Typical[1] Properties

GRAFOIL Grade GHJ is a laminate made with GRAFOIL Grade GTC flexible graphite mechanically attached to a perforated, low-carbon steel core.

Typical applications include: exhaust manifold gaskets, exhaust sealing, gasoline/diesel head gaskets, EGR valve sealing and turbo charger gaskets.

Laminate Construction:

1. GRAFOIL Grade GTC (per Technical Bulletin 002)
2. 0.0066" thick (prior to tanging) Low-Carbon Steel Grade 1008 or 1010 (130 tangs per square inch)
3. GRAFOIL Grade GTC (per Technical Bulletin 002)

CHARACTERISTIC	TYPICAL PROPERTY
Thickness of Laminate	0.046" (1.17 mm) Standard 0.056" (1.42 mm) Standard 0.066" (1.68 mm) Standard *Non-standard thicknesses may be available upon request.*
Width	24" (610 mm) Standard *Non-standard widths may be available upon request.*
Length	39.4" (1000 mm) Standard *Non-standard lengths may be available upon request.*
Bulk Density (Graphite)	70 lb/ft^3 (1.12 g/cc) Standard *Non-standard densities may be available upon request.*
Compressibility at 5000 psi (35 MPa) load	26% Typical
Recovery after 5000 psi (35 MPa) load	20% Typical
Creep Relaxation Method: BSI-F125 at 6391 psi (44.1 MPa) load up to 400°C	<3% Typical for 70 lb/ft3
Air Aging, 22 hours at 535°C **Weight Loss** **Compressibility** **Recovery**	 5% Typical 30% Typical 20% Typical
Certification	Certify to Grade Can be certified to meet Ford material spec ESEM8 G201-A

[1] Properties listed are typical and cannot be used as accept/reject specifications. Specifications are listed under Technical Bulletin 148.

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