Advanced Energy Technologies

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GHJ Metal Reinforced Laminate

Technical Data Sheet 017

Product Family - Laminates (Metal-Reinforced)

GHJ - GTC with Tanged Low-Carbon Steel

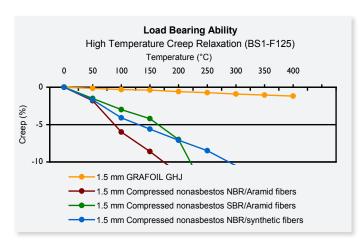
Product Overview

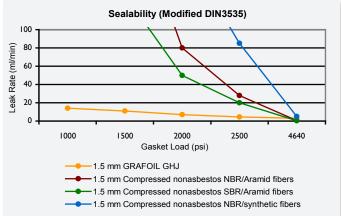
GRAFOIL® GHJ metal-reinforced laminate consists of GRAFOIL® GTC flexible graphite mechanically attached to both faces of a tanged, low-carbon steel core.

Applications

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







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

Typical Properties*

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

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

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