

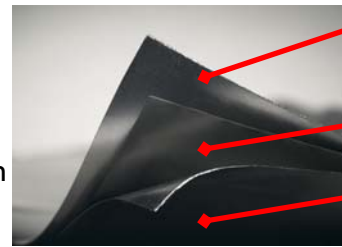
METAL REINFORCED LAMINATES

STANDARD GRADES



GRAFOIL Grade TG-251

GRAFOIL Grade TG-251 is GRAFOIL Grade GTC flexible graphite chemically bonded to both faces of a flat, low-carbon steel core.

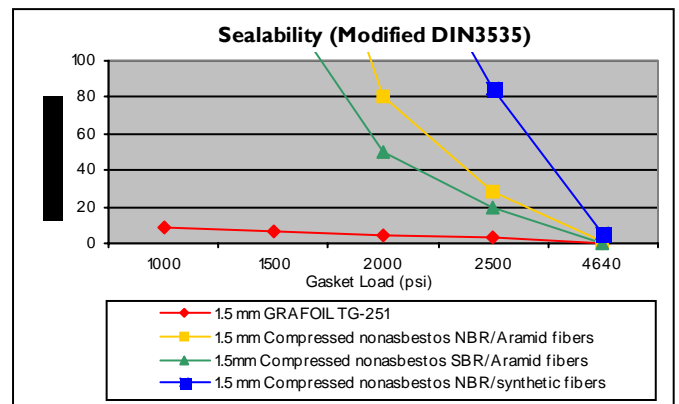
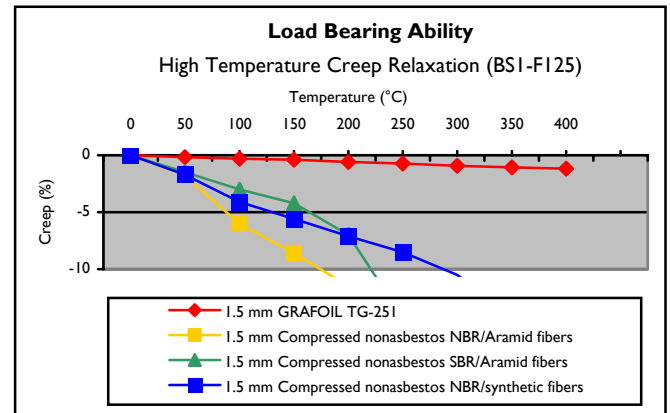


GRAFOIL Grade GTC
Low Carbon Steel
GRAFOIL Grade GTC

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



Grade TG-25I Typical Properties¹

Laminate Construction:

1. GRAFOIL Grade GTC (per Technical Bulletin 002)
micro-thin, phenolic-based adhesive
2. 0.0066" thick Low-Carbon Steel Grade 1008 or 1010
micro-thin, phenolic-based adhesive
3. GRAFOIL Grade GTC (per Technical Bulletin 002)

CHARACTERISTIC	TYPICAL PROPERTY
Thickness of Laminate	0.037" (0.94 mm) Standard 0.047" (1.19 mm) Standard <i>Non-standard thicknesses may be available upon request</i>
Width	24" (610 mm) Standard <i>Non-standard widths may be available upon request</i>
Length	24" (610 mm) Standard 100' (30.5 m) Standard <i>Non-standard lengths may be available upon request.</i>
Bulk Density (Graphite)	70 lb/ft ³ (1.12 g/cc) Standard <i>Non-standard densities may be available upon request</i>
Compressibility at 5000 psi (35 MPa) load	34% Typical
Recovery after 5000 psi (35 MPa) load	31% Typical
Creep Relaxation Method: BSI-FI 25 at 6391 psi (44.1 MPa) load up to 400°C	<3% Typical for 70 lb/ft ³
Air Aging, 5 hours at 540°C Weight Loss Compressibility Recovery	5% Typical 39% Typical 24% Typical
Fluid Soaking Distilled Water, 22 hrs @ boiling 50/50 Glycol/Water, 48 hrs @ boiling	No separation between GRAFOIL and steel No separation between GRAFOIL and steel

¹ Properties listed are typical and cannot be used as accept/reject specifications. Specifications are listed under Technical Bulletin 152.