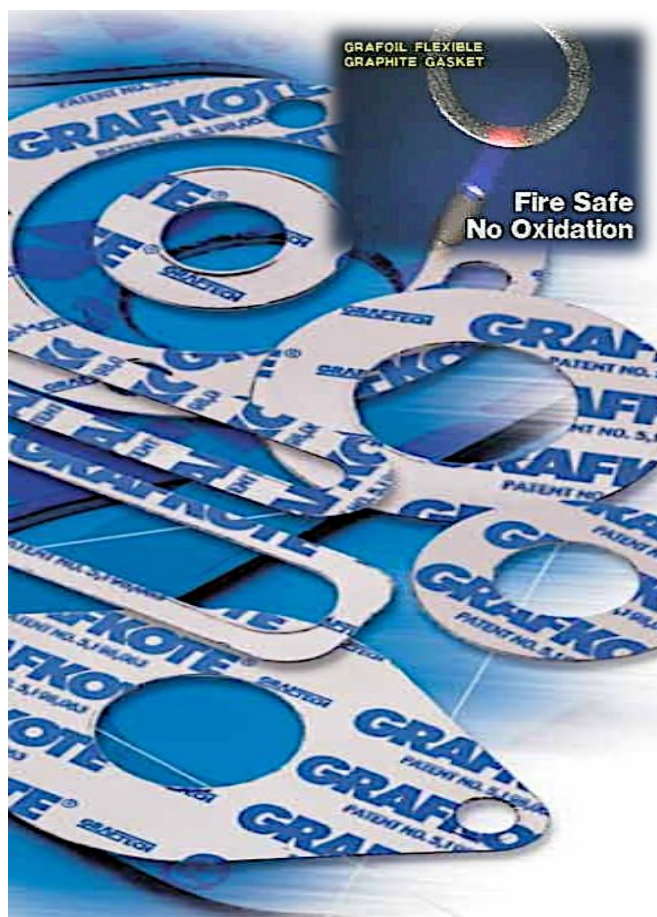
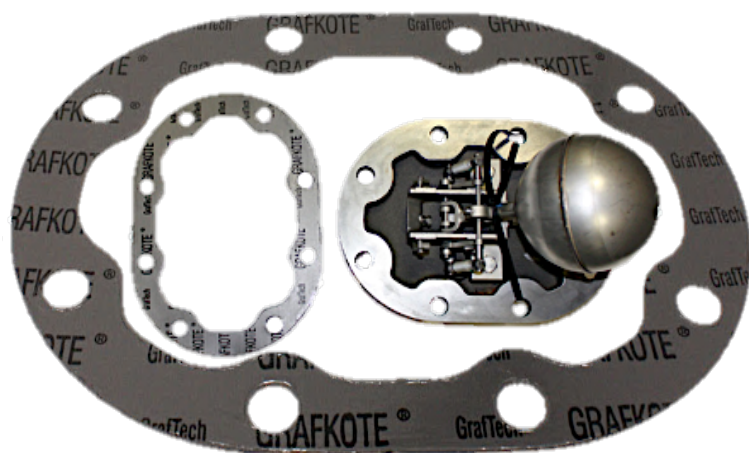


GRAFKOTE® Polymer Clad Graphite Laminate

- GRAFOIL® Polymer Clad Graphite Laminate materials are single-layer pure flexible graphite of the same grade thermally bonded together on one or both sides of the flexible graphite.
- Graphite purity 98%
- Continuous operating temperature ranges from 200°C for thickness > 0.51 mm and 400°C for thickness > 0.762 mm.
- Chemical resistant to aggressive chemical.
- The most efficient sealing gaskets and packing
- Easy to handle and cost effective
- Unlimited shelf Life
- Low outgassing



GRAFKOTE® Non-Metal Reinforced Laminate

Product Family

Reinforced Laminate

GRAFKOTE® – GTB flexible graphite thermally bonded with polymer facing.

Product Overview

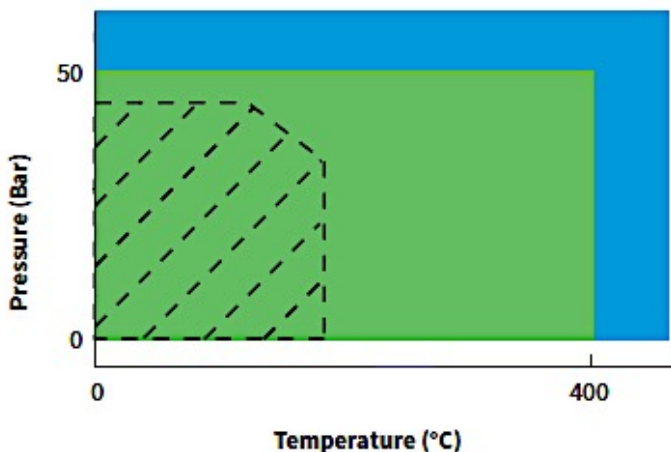
GRAFOIL® GRAFKOTE® non-metal- reinforced laminate consists of GRAFOIL® GTB flexible graphite thermally bonded with polymer on one side of both sides of the GTB flexible graphite. The polymer enhances product handling and durability.

- 1) One side – 0.127 mm Polymer + GRAFOIL® GTB flexible graphite.
- 2) Two sides – 0.127 mm Polymer + GRAFOIL® GTB flexible graphite + 0.127 mm. Polymer.

Applications

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

PT Guidelines

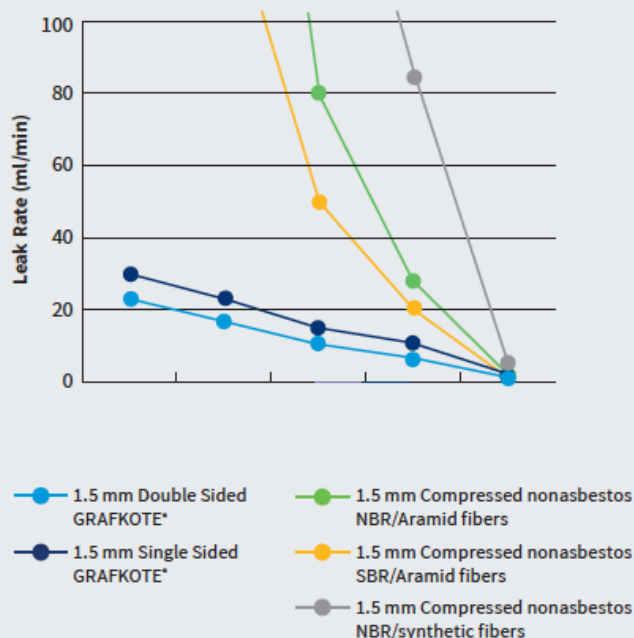


GRAFKOTE® material P_xT: 8,662,500

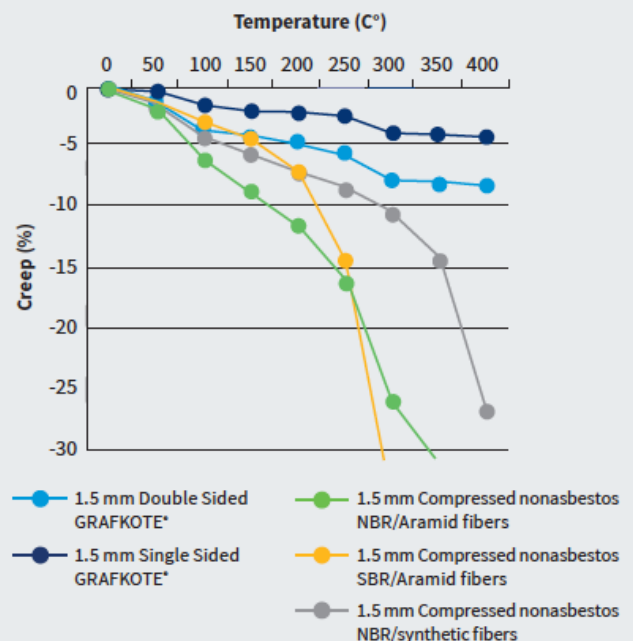
- Recommended for non-asbestos fiber sheet
- Recommended for GRAFKOTE products
- Not recommended for GRAFKOTE products

The PT Guidelines chart offers general recommendations for gasketing materials, based on pressure and operating temperature. This information is offered only as a guideline and should not be viewed independently from application environment, chemical compatibility and gasket thickness.

SEALABILITY (MODIFIED DIN3535)



LOAD BEARING ABILITY High Temperature Creep Relaxation (BS1-F125)



Advantages of GRAFKOTE® Non-metal Reinforced Laminate

- Superior to non asbestos fibre sheet in every characteristic (Temperature, Creep, Recovery, and sealability)
- Compatible with a wide range of chemicals • Contain no hazardous materials
- Maximum continuous operating temperature of 400°C • Unlimited shelf life
- Material availability in rolls allows for maximum material utilization • Easy to cut
- Robust for easy handling and durable • Cost effective

Typical Properties* GRAFKOTE®

Characteristic	Typical Value
Thickness	0.030" (0.76 mm), 0.060" (1.52 mm), 0.062" (1.57 mm)
Width	39.4" (1000 mm)
Length	39.4" (1000 mm) or 100' (30.5 mt)
Application Temperture	200°C (392°F) Maximum for > 0.020" 400°C (750°F) Maximum for > 0.030"
Bulk Density	70 lb/ft ³ (1.12 g/cc)
Compressibilty at 5000 psi (35 MPa) load	43%
Recovery at 5000 psi (35 MPa) load	20%
Creep Relaxation Method: BSI-F 125 at 6391 psi (44.1 MPa) load up to 400°C	<4% for 70 lb/ft ³
Tensile Strength	800 psi (5.5MPa) for ≥ 0.030" thick 950 psi (6.6 MPa) for 0.010" thick
Pressure class	ASME 150, ASME 300, PN 20, PN 50
ASTM IRM OIL 1 (5hrs at 150°C)	
Thickness Change	3%
Weight Change	38%
ASTM IRM 903 OIL (5hrs at 150°C)	
Thickness Change	2%
Weight Change	30%
Fuel B (5hrs at room temperature)	
Thickness Change	5%
Weight Change	33%
50/50 WATER GLYCOL (22hrs Boiling)	
Thickness Change	3%
Weight Change	50%
DISTILLED WATER (5hrs at 100°C)	
Thickness Change	1.5%
Weight Change	40%
Certification	Certify to Grade

Note: *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: 6,526 psi (45 MPa)

Asia authorized distributor: Everjoy Industrial Supplies Pte. Ltd.

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