

SINGLE LAYER MATERIAL

STANDARD GRADES

GTA	Non-inhibited, Nuclear 99.8% graphite
GTJ	Inhibited, Nuclear 99.5% graphite
GTB	Inhibited 98% graphite
GTD	SWG filler material 98.5% graphite
GTX	Highly inhibited

GRAFOIL Grade GTX

GRAFOIL GTX flexible graphite sheet is inhibited for high oxidation / corrosion resistance that can be used for most fluid sealing and industrial applications. Grade GTX contains an inorganic, nonmetallic, passive corrosion and oxidation inhibitor that allows a maximum continuous use temperature of 1000°F (538°C) in oxidizing environments. *Meets continuous use temperature and oxidation weight loss limits of the proposed CAPI spec.*

Grade GTX Typical Properties ¹

CHARACTERISTIC	TYPICAL PROPERTY
Thickness	0.015" (0.38 mm) Standard 0.020" (0.51 mm) Standard 0.040" (1.02 mm) Standard <i>Non-standard thicknesses may be available upon request.</i>
Width	39.4" (1000 mm) Standard <i>Non-standard widths may be available upon request.</i>
Length	100' (30.5 m) Standard <i>Non-standard lengths may be available upon request.</i>
Bulk Density	70 lb/ft ³ (1.12 g/cc) Standard <i>Non-standard densities may be available upon request.</i>
Ash Content*	1% Typical
Oxidation Inhibitor*	2.5% Typical
Leachable Chloride	10 ppm Typical
Sulfur Content	800 ppm Typical
Oxidation Weight Loss	5% Typical
Compressibility at 5000 psi (35 MPa) load	43% Typical for 70 lb/ft ³
Recovery after 5000 psi (35 MPa) load	15% Typical for 70 lb/ft ³
Tensile Strength	650 psi Typical for 70 lb/ft ³
Creep Relaxation Method: BSI-F125 at 6391 psi (44.1 MPa) load up to 400°C	<3% Typical for 70 lb/ft ³
Sealability Method: Mod DIN 3535 at 580 psi N ₂ at 32 MPa load	<1.5 ml/min Typical for 70 lb/ft ³
Certification	Certify to Grade

*Traditional Ash testing of the finished sheet material results in residual amounts of both unintentionally added materials and intentionally added oxidation inhibitors, thus distorting the apparent purity. Testing the flake before the addition of oxidation inhibitors gives a truer picture of the flexible graphite purity.

APPLICATIONS

- High temperature gaskets
- Heat exchangers

¹Properties listed are typical and cannot be used as accept/reject specifications. Specifications are listed under Technical Bulletin 432.