

	GraFoil® GTA
Markets	Nuclear, Semiconductor
Typical Properties	
Thickness	0.005" - 0.030" (0.13 mm-0.76 mm)
Width	24" (610 mm) - 39.4" (1000 mm) for >0.15" (0.381 mm)
Length	100' (30.5 M)
Bulk Density	70 lb/ft³ (1.12 g/cc)
Ash Content	0.20%
Carbon Content	99.80%
Leachable Chloride	<10 ppm
Sulfur Content	450 ppm
Temperature Use Range (in air)	-400°F to 850°F (-240°C to 450°C)
Temperature Use Range (in vacuum or reducing environment)	-400°F to 5400°F (-240°C to 3000°C)
	GraFoil® GTB
Markets	Chemical, Petrochemical
Typical Properties	
Thickness	0.01" - 0.060" (0.25 mm-1.52 mm)
Width	24" (610 mm) - 39.4" (1000 mm)
Length	100' (30.5 M)
Bulk Density	70 lb/ft³ (1.12 g/cc)
Ash Content	1.80%
Carbon Content	98.20%
Leachable Chloride	10 ppm
Sulfur Content	550 ppm
Oxidation Standard	FSA-G-604-7 Method A
Oxidation Weight Loss	3%
Compressibility at 5000 psi (35 MPa) load	43% for 70 lb/ft³ (1.12 g/cc)
Recovery after 5000 psi (35 MPa) load	15% for 70 lb/ft³ (1.12 g/cc)
Tensile Strength	650 psi (4482 kPa) for 70 lb/ft³ (1.12 g/cc)
Temperature Use Range	-400°F to 975°F (-240°C to 525°C)
Creep Relaxation Method: BSI-F125 at 6391 psi (44.1 MPa) load up to 752°F (400°C)	<3% for 70 lb/ft³ (1.12 g/cc)
Sealability Method: Mod DIN 3535 at 580 psi N2 at 32 MPa load	<1.5 ml/min for 70 lb/ft³ (1.12 g/cc)
	GraFoil® GTC
Markets	Internal Combustion, Automotive
Typical Properties	
Thickness	0.015" - 0.035" (0.381 mm - 0.889 mm)
Width	Can slit to width
Length	1000' (304.8M) - 2000' (609.6 M)
Bulk Density	70 lb/ft³ (1.12 g/cc)
Ash Content	3%
Carbon Content	97%
Leachable Chloride	<10 ppm
Sulfur Content	450 ppm
Oxidation Weight Loss	12%
Compressibility at 5000 psi (35 MPa) load	43% for 70 lb/ft³ (1.12 g/cc)
Recovery after 5000 psi (35 MPa) load	15% for 70 lb/ft³ (1.12 g/cc)
Tensile Strength	650 psi (4482 kPa) for 70 lb/ft³ (1.12 g/cc)
Temperature Use Range	-400°F to 975°F (-240°C to 525°C)
Creep Relaxation Method: BSI-F125 at 6391 psi (44.1 MPa) load up to 752°F (400°C)	<3% for 70 lb/ft³ (1.12 g/cc)
Sealability Method: Mod DIN 3535 at 580 psi N2 at 32 MPa load	<1.5 ml/min for 70 lb/ft³ (1.12 g/cc)
	GraFoil® GTJ
Markets	Nuclear, High Temperature, High Purity
Typical Properties	
Thickness	0.01" - 0.030" (0.25 mm-0.76 mm)
Width	24" (610 mm) - 39.4" (1000 mm)
Length	100' (30.5 M)
Bulk Density	70 lb/ft³ (1.12 g/cc)
Ash Content	0.50%
Carbon Content	99.50%
Leachable Chloride	<10 ppm
Sulfur Content	450 ppm
Temperature Use Range	-400°F to 975°F (-240°C to 525°C)

	GraFoil® Flexible Graphite Laminate		GraFoil® Metal Reinforced Laminate	
Laminate	GraFoil® GHA Flexible Graphite Laminate	GraFoil® GHA-C Flexible Graphite Laminate	GraFoil® GHE Metal Reinforced Laminate	GraFoil® GHR Metal Reinforced Laminate
Multi-Layer Graphite				
Construction	GraFoil® GTA Flexible Graphite/ Micro-Thin Phenolic Adhesive/ GraFoil® GTA Flexible Graphite	GraFoil® GTC Flexible Graphite/ Micro-Thin Phenolic Adhesive/ GraFoil® GTC Flexible Graphite	GraFoil® GTB Flexible Graphite/ Stainless Steel Tang Metal Insert/ GraFoil® GTB Flexible Graphite	GraFoil® GTB Flexible Graphite/ Stainless Steel Insert/ GraFoil® GTB Flexible Graphite
Markets	Oil & Gas, Chemical Plants, Refining & Petrochemical Industries	Oil & Gas, Chemical Plants, Refining & Petrochemical Industries	Chemical, Petrochemical, Refinery, Steam Service, Cryogenic, ASME Class 150 & 300 Flanges	Chemical, Petrochemical, Refinery, Steam Service, Cryogenic, ASME Class 150 & 300 Flanges
Typical Properties				
Thickness	1/16" (1.59 mm) 1/8" (3.18 mm)	1/16" (1.59 mm) 1/8" (3.18 mm)	0.062" (1.57 mm) 0.125" (3.15 mm)	0.032" (0.81 mm) 0.062" (1.57 mm) 0.125" (3.15 mm)
Width	24" (610 mm)	24" (610 mm)	39.4" (1000 mm)	39.4" (1000 mm)
Length	24" (610 mm)	24" (610 mm)	39.4" (1000 mm) 100' (30.5 m) ≤ 0.064" (1.626 mm) thickness	39.4" (1000 mm) 100' (30.5 m) ≤ 0.064" (1.626 mm) thickness
Bulk Density (graphite)	70 lb/ft³ (1.12 g/cc)	70 lb/ft³ (1.12 g/cc)	70 lb/ft³ (1.12 g/cc)	70 lb/ft³ (1.12 g/cc)
Ash Content	0.30%	1.80%	---	---
Carbon Content	---	---	---	---
Leachable Chloride	< 10 ppm	< 10 ppm	---	---
Sulfur Content	450 ppm	550 ppm	---	---
Oxidation Standard	---	---	FSA-G-604-7 Method A	FSA-G-604-7 Method A
Temperature Use Range	---	---	-400°F to 975°F (-240°C to 525°C)	-400°F to 975°F (-240°C to 525°C)
Tensile Strength	---	---	---	3800 psi (26.31 MPa)*
Compressibility at 5000 psi (35 MPa) load	43%	43%	36% for 0.064" (1.626 mm) thick	40%
Recovery after 5000 psi (35 MPa) load	15%	15%	18% for 0.064" (1.626 mm) thick	15%
Creep Relaxation Method: BSI-F125 at 6391 psi (44.1 MPa) load up to 752°F (400°C)	---	---	<3% for 70 lb/ft³ (1.12 g/cc)	<3% for 70 lb/ft³ (1.12 g/cc)
Sealability Method: Mod DIN 3535 at 580 psi N2 at 32 MPa load	---	---	<1.5 ml/min for 70 lb/ft³ (1.12 g/cc)	<1.5 ml/min for 70 lb/ft³ (1.12 g/cc)
Resistance in #3 Oil Thickness increase Weight change	---	---	<12% <35%	<12% <35%
Resistance in #1 Oil Thickness increase Weight change	---	---	<8% <33%	<8% <33%

* Additive of steel and GraFoil® flexible graphite

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