

TG-312 Flexible Graphite

TECHNICAL DATA SHEET 619

Product Overview

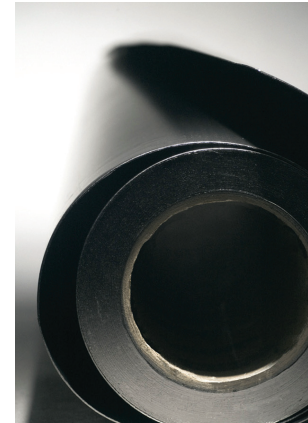
GraFoil® TG-312 flexible graphite is high-purity for use in applications that are sensitive to impurities.

Product Family - Single Layer Material (Service to 450°C)

- TG-411 - 99.998% Graphite
- **TG-312 - Non-Nuclear 99.8% Graphite**
- GTA - Nuclear 99.8% Graphite
- GTC - 97% Graphite

Applications

- Furnace Process Liners
- Semiconductor Process Liners
- Industrial Press Pads



Typical Properties*

CHARACTERISTICS

TYPICAL VALUE

Thickness	0.003" (0.08 mm) 0.010" (0.25 mm)
Width	24" (610 mm)
Length	100' (30.5 m)
Bulk Density	70 lb/ft ³ (1.12 g/cc)
Ash Content	0.2%
Carbon Content	99.8%
Leachable Chloride	<10 ppm
Sulfur Content	1000 ppm
Total Chlorides	<50 ppm
Total Fluorides	<10 ppm
Total Halogens	40 ppm
Total Nitrates	10 ppm
Total Nitrites	1 ppm
Mercury (Hg)	<0.5 ppm
Phosphorus	30 ppm
Aluminum (Al)	15 ppm
Copper (Cu)	<10 ppm
Temperature Use Range (in air)	-400°F to 850°F and (-240°C to 450°C)
Temperature Use Range (in vacuum or reducing environments)	-400°F to 5400°F (-240°C to 3000°C)
Certification	Certify to Grade

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

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