

GTA Premium Flexible Graphite

Technical Data Sheet 435

Single Layer Material

- GTA - Non-inhibited, Nuclear 99.8% graphite
- GTJ - Inhibited, Nuclear 99.8% graphite
- GTB - Inhibited, 98% graphite

Product Overview

GRAFOIL GTA premium flexible graphite is non-inhibited grade developed for use in nuclear or semiconductor applications. It is certified to meet the most rigorous purity specifications of the nuclear industry, including the General Electric Nuclear Nonmetallic Material Specification D50YP12 (Rev 2) and is typically 99.8% graphite.



Applications

- Nuclear
- Semiconductor

Typical Properties*

Characteristic	Value
Thickness	0.005" (0.13 mm) Standard 0.010" (0.25 mm) Standard 0.015" (0.38 mm) Standard 0.020" (0.51 mm) Standard 0.025" (0.64 mm) Standard 0.030" (0.76 mm) Standard Non-standard thicknesses may be available upon request.
Width	24" (610 mm) Standard 39.4" (1000 mm) Standard for 0.015" and 0.020" thick Non-standard widths may be available upon request.
Length	100' (30.5 m) Standard Non-standard lengths may be available upon request.
Bulk Density	70 lb/ft ³ (1.12 g/cc) Standard Non-standard densities may be available upon request.
Ash Content	0.2% Typical
Carbon Content	99.8% Typical
Leachable Chloride	<10 ppm Typical
Sulfur Content	450 ppm Typical

(Typical Properties continued on next page)

Typical Properties* (cont)

Total Chlorides	<50 ppm Typical
Total Fluorides	<10 ppm Typical
Total Halogens	40 ppm Typical
Total Nitrates	10 ppm Typical
Total Nitrites	1 ppm Typical
Mercury (Hg)	<0.5 ppm Typical
Phosphorus	30 ppm Typical
Aluminum (Al)	15 ppm Typical
Copper (Cu)	<10 ppm Typical
Temperature Use Range (in air) Temperature Use Range (in vacuum or reducing environments)	-400°F to 850°F and (-240°C to 450°C). -400°F to 5400°F (-240°C to 3000°C)
Certification	Certify to Grade

Notes:

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

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