

TG-411 Flexible Graphite

TECHNICAL DATA SHEET 443

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

- TG-411 - 99.998% Graphite
- GTA - Nuclear 99.8% Graphite
- TG-312 - 99.8% Graphite
- GTE - 98% Graphite
- GTC - 97% Graphite
- TG-337 - 97% Graphite

Product Overview

GRAFOIL® TG-411 flexible graphite is highly purified for applications requiring ultra-high purity levels.



Typical Properties*

CHARACTERISTIC	TYPICAL VALUE
Thickness	0.015" (0.38 mm)
Sheet Dimensions	18.11" x 29.53" (460 mm x 750 mm)
Bulk Density	70 lb/ft ³ (1.12 g/cc)
Chlorine (Cl)	0.23 ppm
Calcium (Ca)	0.17 ppm
Sulfur (S)	1.15 ppm
Sodium (Na)	0.08 ppm
Aluminum (Al)	0.06 ppm
Phosphorous (P)	0.19 ppm
Iron (Fe)	0.15 ppm
Zinc (Zn)	<0.05 ppm
Potassium (K)	0.02 ppm
Magnesium (Mg)	0.01 ppm
Cobalt	<0.05 ppm
Chromium (Cr)	<0.10 ppm

(Typical Properties continued on next page)

GRAFOIL® TG-411 FLEXIBLE GRAPHITE

CHARACTERISTIC	TYPICAL VALUE
Boron (B)	0.02 ppm
Copper (Cu)	<0.05 ppm
Nickel (Ni)	0.01 ppm
Arsenic (As)	<0.01 ppm
Silicon (Si)	1.15 ppm
Manganese (Mn)	<0.010 ppm
Mercury (Hg)	<0.5 ppm
Tantalum (Ta)	< 5 ppm
Bromine (Br)	<0.1 ppm
Selenium (Se)	<0.1 ppm
Germanium (Ge)	<0.1 ppm
Titanium (Ti)	0.05 ppm
Lithium (Li)	<0.05 ppm
Total Impurities	3.4 ppm
Certification	Certify to Grade

Notes:

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

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