

GRAFOIL[®]

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
- GTC 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/ft³ (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)

www.neograf.com

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.

+1 (800) 253.8003 (Toll-Free in USA) | +1 (216) 529.3777 (International) www.neograf.com | info@neograf.com

©2020 NeoGraf Solutions, LLC (NGS). This information is based on data believed to be reliable, but NGS makes no warranties, express or implied, as to its accuracy and assumes no liability arising out of its use. The data listed falls within the normal range of product properties, but should not be used to establish specification limits or used alone as the basis of design. NGS's liability to purchasers is expressly limited to the terms and conditions of sale. eGRAF®, NeoNxGen[™], SPREADERSHIELD[™], HITHERM[™], GRAFGUARD[®], GRAFOL[®], GRAFOL[®], GRAF+[®] and GrafIHX[®] are registered trademarks of NeoGraf Solutions, LLC. eGRAF[®], NeoNxGen[™], SPREADERSHIELD[™], HITHERM[™], GRAFOURD[®], GRAFOL[®], GRAF+[®] and GrafIHX[®] products, materials, and processes are covered by several US and foreign patents. For patent information visit www.neograf.com.