

Primary Synthetic Graphite Powder GP44-R

Technical Data Sheet 26

Product Overview

GRAF+TM GP44-R graphite powder offers high, consistent purity and good lubrication properties.

Applications

- Conductive polymers
- Friction materials
- Carbon brushes
- Batteries
- Lubricants
- Fuel cells

Warranted Properties

Characteristic	Unit	Value
Ash	% Max	0.20
Moisture	% Max	0.50
Sizing	Tyler Sieve	98.5%, -200 Mesh

Informational Properties (at Room Temperature)*

Characteristic	Unit	Value
Density		
Apparent Density (Scott)	g/cm ³	0.222
Real Density (Helium)	g/cm ³	2.25
Surface Area		
BET (Brunauer, Emmett & Teller)	m ² /g	9.2
Particle Distribution (Laser Diffraction Method)		
90%	µm	< 40
50%	µm	< 15

(continued on page 2)

Informational Properties (continued)*

Characteristic	Unit	Value
Purity		
Ash	%	0.12
Moisture	%	0.11
Sulfur	%	0.03
Elemental Analysis		
Al	ppm	65
Ca	ppm	60
Cr	ppm	1.3
Fe	ppm	160
Mn	ppm	2
Ni	ppm	18
K	ppm	6
Si	ppm	82
Ti	ppm	6
V	ppm	45
Zn	ppm	1.1

Notes:

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

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