

SF76 Graphite

Technical Data Sheet 6029

Product Overview

GRAFSTAR™ Grade SF76 is generally made according to the specific needs and dimensions of the customer. It has higher purity and the maximum level of some impurities can be guaranteed.

Applications

- Electrolysis
- Refractory Production
- Anodes

Sizes*

Shape	Measurement	Unit	Value	Unit	Value
Round	Diameter	in	8 to 12	mm	200 to 300
Rectangle	Length	in	6 x 12 to 24 x 24	mm	150 x 300 to 600 x 600

Typical Properties at Room Temperature**

Characteristic	Unit	WG	AG
Bulk Density	g/cc	1.78	
Max Grain Size	µm	760	
Specific Resistance	µΩm	5.0	9.0
Flexural Strength (4-Point Bending)	MPa	20	11.7
Tensile Strength	MPa	15.8	11.7
Compressive Strength	MPa	36.9	
Young's Modulus	GPa	13.8	6
Hardness	Rockwell "R"	62	
C.T.E. (to 100 °C)	10 ⁻⁶ /°C	0.6	2.5
Porosity	%	13	
Permeability	Darcy	0.004	0.003
Thermal Conductivity	W/mK	230	130
Ash	ppm	300	

Notes:

* Other sizes available upon request

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

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Redefining limits