

SF75 Graphite

Technical Data Sheet 5091

Product Overview

SF75 extruded graphite 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

Sizes*

- 150 x 300 to 600 x 600 mm rectangles
- 6" x 12" to 24" x 24" rectangles
- 200 to 300 mm diameter rounds
- 8" to 12" diameter rounds

Typical Properties at Room Temperature**

Characteristic	Unit	WG	AG	Unit	WG	AG	Unit	WG	AG
Density	lbs/ft ³	108		g/cm ³	1.73		g/cm ³	1.73	
Maximum Particle Size	inches	0.030		mm	0.76		mm	0.76	
Specific Resistance	10 ⁻⁴ Ωin	2.2	3.9	μΩm	5.5	10.0	μΩm	5.5	10.0
Flexural Strength	psi	2610	1450	kg/cm ²	183	102	MPa	18	10
Young's Modulus	10 ⁶ psi	1.88	0.87	kg/mm ²	1325	612	GPa	13.0	6.0
Tensile Strength	psi	2030	1015	kg/cm ²	143	71	MPa	14	7
Compressive Strength	psi	4639	4929	kg/cm ²	326	347	MPa	32	34
Permeability	Darcy	0.011	0.007	Darcy	0.011	0.007	Darcy	0.011	0.007
Hardness	Rockwell "R"	55		Rockwell "R"	55		Rockwell "R"	55	
C.T.E. (to 100 °C)	10 ⁻⁶ /°F	0.3	1.3	10 ⁻⁶ /°K	0.6	2.4	10 ⁻⁶ /°K	0.6	2.4
Thermal Conductivity	BTU-ft/hr ft ² °F	121	69	W/mK	210	120	W/mK	210	120
Ash Content	ppm	300		ppm	300		ppm	300	

Notes:

* Other sizes available upon request

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

www.graftech.com | grafstar@graftech.com

Redefining limits

United States of America

101 N. Philippi Pike
Anmoore, WV 26323-0120
Ph: +1-800-842-8805
+1-304-624-1253

China

Unit 2104 of International Capital Plaza
1318, Sichuan Road North
Hongkou District, Shanghai China
Ph: +86-21-8625-8018

Italy

Via Forno Allione, 2
1-25040 Malonno, Brescia, Italy
Ph: +39-036-463-0131

France

La Lechere
73264 Aigueblanche Cedex, France
Ph: +33-4-79-41-45-00