

SF74 Advanced Graphite

Technical Data Sheet 6036

Product Overview

GRAFSTAR™ SF74 advanced graphite is a versatile product generally made according to specific needs and dimensions.

Applications

- Electrolysis
- Anodes

Sizes*

- 150 x 300 to 600 x 600 mm rectangles

Typical Properties at Room Temperature**

Characteristic	Unit	WG	AG
Density	g/cc	1.63	
Maximum Particle Size	mm	0.76/0.36	
Helium Porosity	%	24	
Permeability	Darcy	0.04	0.025
Specific Electrical Resistance	$\mu\Omega\text{m}$	7	11
Thermal Conductivity	W/m°C	170	110
Flexural Strength	MPa	10	7.5
Tensile Strength	MPa	7.5	5
Compressive Strength	MPa	20	
Young's Modulus	GPa	8	5
Coefficient Thermal Expansion (30 to 100°C)	$10^{-6}/^{\circ}\text{C}$	0.7	2.2
Linear Scale Hardness	MPa	90	
Ash Content	ppm	300	
Iron Content	ppm	50	
Vanadium Content	ppm	10	

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: +86-21-6325-8018

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