



GRAFSTAR™ AGSR Extruded Graphite

Technical Data Sheet

Product Overview

GRAFSTAR™ AGSR material is a cost effective, extruded graphite with good physical and mechanical properties.

Applications

- Furnace parts

Sizes*

- 3", 4", 5 1/8", and 6" diameter rounds

Typical Properties at Room Temperature**

Characteristic	Unit	WG	AG	Unit	WG	AG
Density	lbs/ft ³	101		g/cm ³	1.62	
Medium Particle Size	inches	0.03		mm	0.76	
Specific Resistance	10 ⁻⁴ Ωin	3.33	.9	μΩm	8.51	0
Flexural Strength	psi	2046	1800	MPa	14.1	12.4
Young's Modulus	10 ⁶ psi	1.26	0.95	GPa	8.69	6.55
Tensile Strength	psi	1337	1200	MPa	9.28	.3
Compressive Strength	psi	3850	4000	MPa	26.5	27.6
Permeability	Darcy	0.21	0.16	Darcy	0.21	0.16
Thermal Conductivity	BTU-ft/hr ft ² °F	82	74	W/mK	140	125
CTE (RT to 100°C)	10 ⁻⁶ /°F1	1.11	.6	10 ⁻⁶ /K	2.0	0.09
Ash Content	%	0.09		%	0.09	
Hardness	Rockwell R	70		Rockwell R	70	

Notes:

* Other sizes available upon request

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

