

SF06 Graphite

Technical Data Sheet 6063

Product Overview

GRAFSTAR™ SF06 graphite is a general purpose, extruded graphite with excellent thermal shock resistance. It provides dimensional, electrical, and thermal stability with good mechanical strength.

Applications

- Crucibles and sintering boats
- Furnace linings and parts
- Spouts and runout tables

Sizes

- Up to 450mm diameter rounds
- Up to 450 x 650mm cross sections

Typical Properties at Room Temperature*

Characteristic	Unit	WG	AG
Density	g/cm ³	1.64	
Maximum Particle Size (max/avg)	mm	3.2/0.8	
Helium Porosity	%	22	
Specific Resistance	μΩm	10.5	13
Thermal Conductivity	W/mK	140	110
Flexural Strength	MPa	12	10
Young's Modulus	GPa	8	6
C.T.E. (to 100 °C)	10 ⁻⁶ /°C	2.4	2.7
Ash Content	ppm	0.9	

Notes:

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

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Redefining limits