



HEADQUARTERS

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Grade PDF Block Specifications

Description: Grade PDF, is primarily the material of choice for lower density and higher electrical resistivity than grade PDF-N.

Typical applications:

- Furnace Liners
- Pressure casting molds
- Induction furnace susceptors
- Centrifugal casting molds
- Large-diameter crucibles

Standard Sizes: 36" dia. x 23", 44" dia. x 23", 48" dia. x 23"

Properties	Test Standard	English		Metric	
		UOM		UOM	
Bulk Density	ASTM C-838	lbs/ft ³	104	g/cm ³	1.67
Particle Size	ASTM C-559	inches	0.031	mm	0.8
Electrical Resistivity	ASTM C-830	Ωinch	4	μΩm	10
Flexural Strength	ASTM C-651	psi	2000	MPa	14
Compressive Strength	ASTM C-695	psi	5000	MPa	30
Tensile Strength	ASTM C-565	psi	1700	MPa	12
Porosity	ASTM C-611	%	20	%	20
Coefficient of Thermal Expansion (to 100°C)	ASTM E-228	10-6/°F	1.2	10-6/°C	2.5
Thermal Conductivity	ASTM C-201	Btu-ft/hr-ft ² °F	82	W/mK	140
Ash Content	ASTM C-561	%	0.12	%	0.12
Hardness		Rockwell "R"	70		70

The above data should be regarded as general information, not guaranteed specification limits.