



HEADQUARTERS

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Grade PDF-N Round Specifications

Description: Grade PDF-N is primarily the material of choice for applications when a graphite with higher density, better mechanical strength, and less porosity than Grade PDF is desired.

Typical applications:

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

Standard Sizes: 30" dia. x 20", 44" dia. x 16", 44" dia. x 23"
48" dia. x 23", 50" dia. x 15", 50" dia. x 23"
56" dia. x 20", 60" dia. x 20"

Properties	Test Standard	English		Metric	
		UOM		UOM	
Bulk Density	ASTM C-838	lbs./ft ³	110	g/cm ³	1.76
Particle Size	ASTM C-559	Inches	0.031	mm	0.8
Electrical Resistivity	ASTM C-830	Ωinch	3.1	μΩm	8
Flexural Strength	ASTM C-651	psi	2600	MPa	18
Compressive Strength	ASTM C-695	psi	5500	MPa	38
Tensile Strength	ASTM C-565	psi	1700	MPa	12
Porosity	ASTM C-611	%	15	%	15
Coefficient of Thermal Expansion (to 100°C)	ASTM E-228	10-6/°F	1.3	10-6/°C	2.4
Thermal Conductivity	ASTM C-201	Btu-ft/hr-ft ² °F	86	W/mK	150
Ash Content	ASTM C-561	%	0.09	%	0.09
Hardness		Rockwell "R"	80		80

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