



HEADQUARTERS

5628 Clifford Circle • Birmingham, AL 35210 U.S.A.
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Grade PRD-N Rod Specifications

Description: Grade PRD-N, is primarily the material of choice for higher density, better mechanical strength, and less porosity than grade PRD.

Typical applications:

- Furnace parts
- Stirring rods
- Small crucibles
- Brazing rods
- Ground anodes
- Molten metal shafts and posts

Standard Sizes: 2" to 24" dia. with lengths up to 86"

Properties	Test Standard	English		Metric	
		UOM		UOM	
Bulk Density	ASTM C-838	lbs/ft ³	108	g/cm ³	1.72
Particle Size	ASTM C-559	inches	0.031	mm	0.8
Electrical Resistivity	ASTM C-830	Ωinch	3.25	μΩm	8.5
Flexural Strength	ASTM C-651	psi	2900	MPa	20
Compressive Strength	ASTM C-695	psi	5800	MPa	40
Tensile Strength	ASTM C-565	psi	2000	MPa	14
Porosity	ASTM C-611	%	18	%	18
Coefficient of Thermal Expansion (to 100°C)	ASTM E-228	10-6/°F	1.0	10-6/°C	2.5
Thermal Conductivity	ASTM C-201	Btu-ft/hr-ft ² °F	85	W/mK	150
Ash Content	ASTM C-561	%	0.1	%	0.1
Hardness		Rockwell "R"	70		70

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



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