



**HEADQUARTERS**

5628 Clifford Circle • Birmingham, AL 35210 U.S.A.  
TELEPHONE +1 (866) 472-1861 • FAX +1 (205) 838-0822

**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 <sup>3</sup>	108	g/cm <sup>3</sup>	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 <sup>2</sup> °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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