



**HEADQUARTERS**

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

**Grade PRD Rod Specifications**

**Description:** Grade PRD, is primarily material of choice for cost effective parts for less demanding applications.

**Typical applications:**

- Furnace parts
- Stirring rods
- Small crucibles
- Brazing rods
- Ground anodes
- Molten metal pump 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>	103	g/cm <sup>3</sup>	1.65
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	2300	MPa	16
Compressive Strength	ASTM C-695	psi	5100	MPa	35
Tensile Strength	ASTM C-565	psi	1500	MPa	10
Porosity	ASTM C-611	%	20	%	20
Coefficient of Thermal Expansion (to 100°C)	ASTM E-228	10-6/°F	1.4	10-6/°C	2.5
Thermal Conductivity	ASTM C-201	Btu-ft/hr-ft <sup>2</sup> °F	82	W/mK	140
Ash Content	ASTM C-561	%	0.1	%	0.1
Hardness		Rockwell "R"	65		65

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