

TECHNICAL INFORMATION

Since 1886, UCAR Carbon Company has been supplying quality carbon and graphite products, skilled technical service, and experienced application assistance worldwide.

UCAR[®] Grade D Carbon Blocks & Shapes

RPD-95

September, 1995

Description: Large extruded, anthracite coal based carbon blocks for blast furnace hearth bottoms, tuyere blocks, and submerged arc furnace sidewall blocks. Features good thermal conductivity, low thermal expansion and good volume stability.

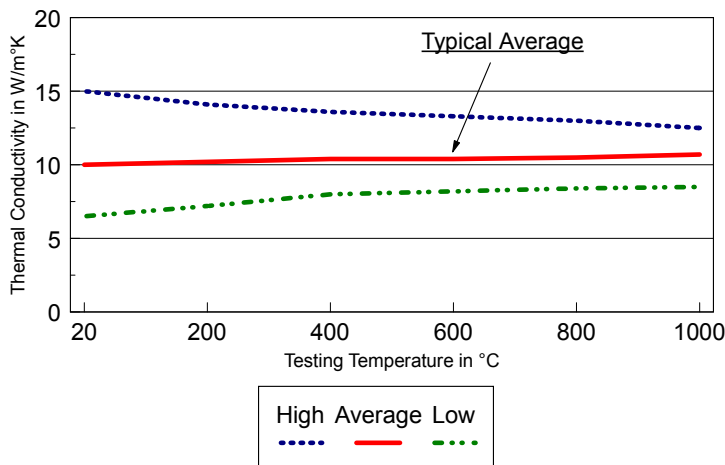
ESSENTIAL PROPERTIES

	Typical Average	Min./Max. Order Average	Min./Max. Individual Sample	Comparable ASTM Test Procedure
Bulk Density (gm/cc)	1.57	1.55	1.51	ASTM C559
Crushing Strength (kPa) (AG)	18500	17000	12400	ASTM C133
Ash (percent)	7	8	9	ASTM C561

INFORMATIONAL PROPERTIES

Modulus of Rupture (kPa) (WG)	4100	ASTM C651
Porosity (percent)	20	ASTM C20
Reheat (at 1000°C) (Essentially Volume Stable)	±0.1%	ASTM C113
Thermal Conductivity (W/m ² K) (WG) @ 20°C	10	ASTM C714

Thermal Conductivity Range vs. Temperature of Grade D, as Measured by the Laser Method



GRAFTech

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