

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 CS Specialty Graphite Shapes

RPD-95

September, 1995

Description: Petroleum coke based low ash and low iron graphite for blast furnace linings, hearth, stack, bosh, tuyere, tapholes and side wall blocks. Features excellent thermal conductivity, high density, high strength, and excellent machinability. Through additional processing steps, Grade CS has higher density, strength, and thermal conductivity than Grade CBY.

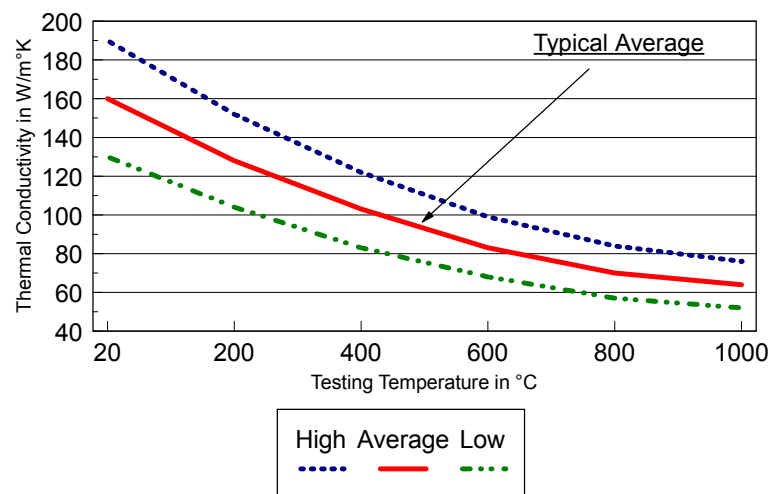
ESSENTIAL PROPERTIES

	Typical Average	Min./Max. Order Average	Min./Max. Individual Sample	Comparable ASTM Test Procedure
Bulk Density (gm/cc)	1.71	1.70	1.67	ASTM C559
Crushing Strength (kPa) (AG)	42000	35000	30000	ASTM C695
Ash (percent)	0.10	0.15	0.32	ASTM C561

INFORMATIONAL PROPERTIES

Porosity (percent)	16			ASTM C20
Flexural Strength (kPa)	19000			ASTM C651
Iron (percent)	0.040			ASTM C560
Permeability (m ³ darcy's)	70			ASTM C577
Thermal Conductivity (W/m ² K) (WG) @ 20°C	160	150	140	ASTM C714

THERMAL CONDUCTIVITY RANGE VS. TEMPERATURE OF GRADE CS, AS MEASURED BY THE LASER METHOD



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