

# TECHNICAL INFORMATION

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

## UCAR<sup>®</sup> Grade CBY Specialty Graphite Shapes

**RPD-95**

September, 1995

**Description:** Petroleum coke based low ash and low iron graphite for blast furnace linings, hearth, stack, cooling course, bosh, and side wall blocks. Features excellent thermal conductivity, high density, high strength, and excellent machinability.

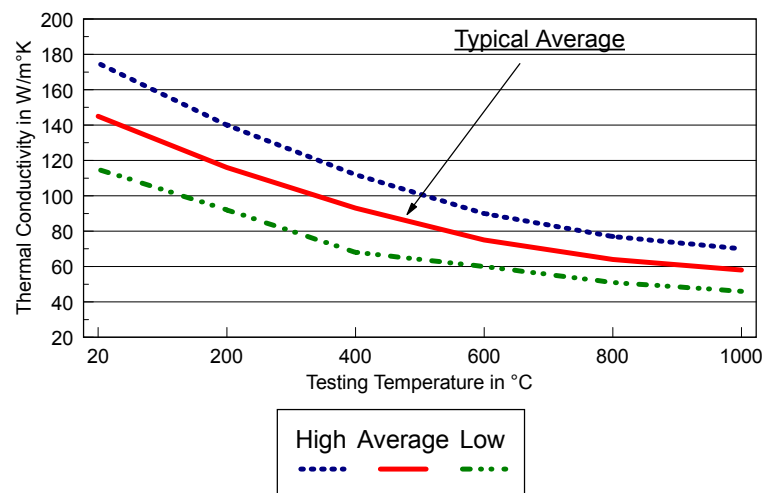
### ESSENTIAL PROPERTIES

	Typical Average	Min./Max. Order Avg.	Min./Max. Individual Sample	Comparable ASTM Test Procedure
Bulk Density (gm/cc)	1.63	1.62	1.59	ASTM C559
Crushing Strength (kPa) (AG)	30000	24000	21000	ASTM C695
Ash (percent)	0.10	0.15	0.30	ASTM C561

### INFORMATIONAL PROPERTIES

Porosity (percent)	24			ASTM C20
Flexural Strength (kPa)	13000			ASTM C651
Iron (percent)	0.035			ASTM C560
Permeability (m <sup>2</sup> darcy's)	130			ASTM C577
Thermal Conductivity (W/m <sup>2</sup> K) (WG) @ 20°C	140	130	120	ASTM C714

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



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