

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 NMA Hot-Pressed Carbon Brick

RPD-95

September, 1995

Description: Hot-Pressed[™] carbon brick for blast furnace and submerged arc furnace wall linings. Features high thermal conductivity, low permeability - micropore structure, high density, high strength, and high resistance to chemical attack compared to conventional carbon. Contains silica addition to improve alkali resistance.

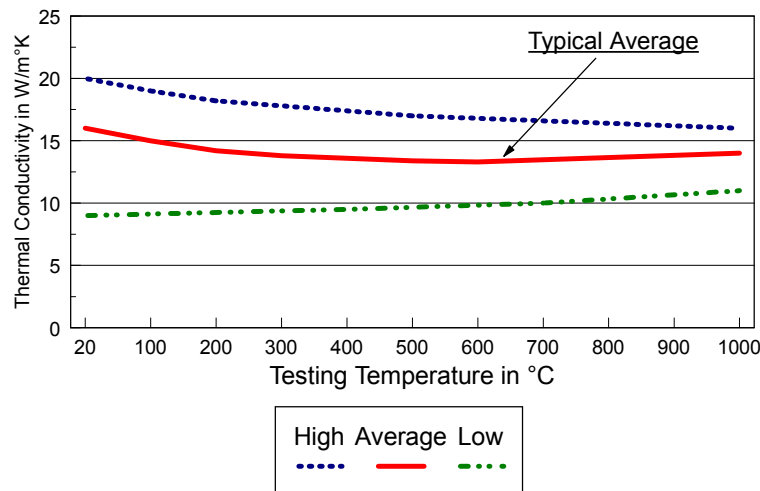
ESSENTIAL PROPERTIES

	Typical Average	Min./Max. Order Avg.	Min./Max. Individual Sample	Comparable ASTM Test Procedure
Bulk Density (gm/cc)	1.61	1.59	1.53	ASTM C559
Crushing Strength (kPa) (AG)	33000	30000	22000	ASTM C133
Ash (percent)	12	13	16	ASTM C561
Permeability (m ³ darcy's) (WG)	11	16	30	ASTM C577

INFORMATIONAL PROPERTIES

Porosity (percent)	18			ASTM C20
Reheat (at 1000°C) (Essentially Volume Stable)	±0.1%			ASTM C113
Thermal Conductivity (W/m ² K) (WG) @ 20°C	17	13	9	ASTM C714

THERMAL CONDUCTIVITY RANGE VS. TEMPERATURE OF NMA BRICK AS MEASURED BY THE LASER METHOD



GRAF[®]Tech

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