



GRAFTech

International

HotPressed™ Refractory Systems

NMA™ HOTPRESSED™ CARBON BRICK

Description: NMA™ HotPressed™ 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. Individual Sample	Comparable ASTM Test Procedure
Bulk Density (gm/cc)	1.61	1.55	ASTM C559
Crushing Strength (kPa) (AG)	35000	22500	ASTM C133
Ash (percent)	12	16	ASTM C561
Permeability (m'darcy's) (WG)	10	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°K) (WG) @ 20°C	18		ASTM C714



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TECHNICAL INFORMATION
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