



# GRAFTech

International

HotPressed™ Refractory Systems

## NMP™ HOTPRESSED™ CARBON BRICK

**Description:** NMP™ HotPressed™ carbon brick for 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
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
Permeability (m'darcy's) (WG)	45	60	ASTM C577



**GRAFTech**  
International

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**TECHNICAL INFORMATION**  
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