



GRAFTech

International

HotPressed™ Refractory Systems

NMD™ HOTPRESSED™ SEMIGRAPHITE BRICK

Description: NMD™ HotPressed™ semigraphite brick developed for blast furnace bosh, belly, and stack. Features higher thermal conductivity, lower permeability - micropore structure, and better alkali resistance compared to conventional carbon or semigraphite. Contains silica to improve alkali resistance.

ESSENTIAL PROPERTIES	Typical Average	Min./Max. Individual Sample	Comparable ASTM Test Procedure
Bulk Density (gm/cc)	1.82	1.74	ASTM C559
Crushing Strength (kPa) (AG)	28000	22700	ASTM C133
Ash (percent)	9	14	ASTM C561
Permeability (m'darcy's) (WG)	5	12	ASTM C577
INFORMATIONAL PROPERTIES			
Porosity (percent)	16		ASTM C20
Reheat(at 1000 °C) (Essentially Volume Stable)	± 0.1%		ASTM C113
Thermal Conductivity (W/m°K) (WG) @ 20°C	70		ASTM C714



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TECHNICAL INFORMATION
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