



# GRAFTech

International

**HotPressed™ Refractory Systems**

## NML™ HOTPRESSED™ SEMIGRAPHITE BRICK

**Description:** NML™ HotPressed™ semigraphite brick developed for Submerge Arc Furnaces. 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
INFORMATIONAL PROPERTIES			
Porosity (percent)	17		ASTM C20
Reheat(at 1000 °C) (Essentially Volume Stable)	± 0.1%		ASTM C113
Thermal Conductivity (W/m <sup>2</sup> K) (WG) @ 20°C	70		ASTM C714
Permeability (m <sup>2</sup> darcy's) (WG)	30	60	ASTM C577



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**TECHNICAL INFORMATION**  
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