



## Durachrome® FG100

**DESCRIPTION:** Magnesia-Chrome Brick, fired, made with fused magnesite-chrome grain. Very high erosion and slag resistance. Low residuals and higher chrome content than standard for higher wear areas like tuyeres, slag lines and snorkels.

**USES INCLUDE:** Electric furnace roofs and sidewalls  
AODs  
Degassers  
Copper Converters  
Lead Smelters  
Nickel Converters  
Ladle Working and Tank Linings

### CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

MgO	55.0 %
Cr <sub>2</sub> O <sub>3</sub>	20.0 %
SiO <sub>2</sub>	1.5 %
Al <sub>2</sub> O <sub>3</sub>	12.0 %
Fe <sub>2</sub> O <sub>3</sub>	10.0 %
CaO	2.2 %

### TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity %	16.0
Bulk Density, pcf (g/cm <sup>3</sup> )	206 (3.30)
CCS, psi (Mpa)	11600(80)
HMOR, 2700F psi (Mpa)	435(3)
RUL, °F(°C)	>3092(1700)
Thermal conductivity, BTU/sf/hr <sup>2</sup> (W/MK)	
400°F(200°C)	34.8
800°F(426°C)	29.9
1200°F(648°C)	26.5

The values reported above are average values derived from production data encompassing many different sizes and shapes. Actual data will vary to a small degree naturally, and as a function of size and shape. This form is not intended to be used for purposes of specification, it is informational only.

Version 20.11