

DURACHROME® FG100

DESCRIPTION: Magnesite-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 %-

Magnesia	MgO	55.0
Chromic Oxide	Cr ₂ O ₃	20.0
Silica	SiO ₂	1.5
Alumina	Al ₂ O ₃	12.0
Iron Oxide	Fe ₂ O ₃	10.0
Lime	CaO	2.2

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity %	16.0
Bulk Density, pcf (g/cm ³)	206 (3.30)
CCS, psi(Mpa)	11600(80)
HMOR, 2700F psi (Mpa)	435(3)
RUL, °F(°C)	>3092(1700)
Thermal conductivity, BTU/sf/hr ² (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.