

DURACHROME® FG33

DESCRIPTION: Direct-bonded magnesia-chrome brick. Fortified with fused magnesia-chrome grain for improved density and corrosion resistance.

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	56%
Chromic Oxide	Cr ₂ O ₃	22%
Silica	SiO ₂	1.5%
Alumina	Al ₂ O ₃	6.0%
Iron Oxide	Fe ₂ O ₃	11%
Lime	CaO	1.2%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity %	17
Bulk Density pcf (g/cm ³)	200(3.20)
CCS psi (Mpa)	7250(50)
HMOR, 2700F psi (Mpa)	290(2)
RUL, °F(°C)	>3092(1700)
Thermal conductivity, BTU/sf/hr ² (W/MK)	
400°F(200°C)	24.4
800°F(426°C)	22.8
1200°F(648°C)	21.5

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.