



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 %)

MgO	56 %
Cr ₂ O ₃	22 %
SiO ₂	1.5 %
Al ₂ O ₃	6.0 %
Fe ₂ O ₃	11 %
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/hr2(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.

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