



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	56.0%
Cr ₂ O ₃	22.0%
Fe ₂ O ₃	11.0%
Al ₂ O ₃	6.0%
SiO ₂	1.5%
CaO	1.2%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%):	17.0
Bulk Density, pcf (g/cm ³):	200 (3.20)
CCS psi (MPa):	7250 (50)
Hot MOR, 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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