



## Durachrome® FG33

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**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 <sub>2</sub> O <sub>3</sub>	22.0%
Fe <sub>2</sub> O <sub>3</sub>	11.0%
Al <sub>2</sub> O <sub>3</sub>	6.0%
SiO <sub>2</sub>	1.5%
CaO	1.2%

### TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%)	17.0
Bulk Density, pcf (g/cm <sup>3</sup> ):	200 (3.20)
CCS psi (MPa):	7250 (50)
Hot MOR, 2700F psi (MPa):	290 (2)
RUL, ° F (° C):	> 3092 (1700)
Thermal conductivity, BTU/sf/hr <sup>2</sup> (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.

Version 20.11

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