



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 %)

MgO	55.0%
Cr ₂ O ₃	20.0%
Al ₂ O ₃	12.0%
Fe ₂ O ₃	10.0%
CaO	2.2%
SiO ₂	1.5%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%):	16.0
Bulk Density, pcf (g/cm ³):	206 (3.30)
Cold Crushing Strength psi (MPa):	11,600 (80)
Hot MOR, 2700F psi (MPa):	435 (3.0)
RUL, ° F (° C):	> 3092 (1700)
Thermal conductivity, BTU/sf/hr2 (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.

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