



Durachrome® FG85

DESCRIPTION: Magnesite-chrome brick, fired, made with predominately fused magnesite-chrome grain. Very high erosion and slag resistance with excellent resistance to thermal cycling. 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	58.0%
Cr ₂ O ₃	22.0%
Fe ₂ O ₃	11.0%
CaO	7.0%
Al ₂ O ₃	1.3%
SiO ₂	1.1%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%):	14.0
Bulk Density, pcf (g/cm ³):	205 (3.28)
CCS psi (MPa):	8700 (60)
Hot MOR, 2700F psi (MPa):	435 (3.0)
RUL, ° F (° C):	> 3092 (1700)
Thermal conductivity, BTU/sf/hr2 (W/mk):	
400° F (200° C)	34.0
800° F (426° C)	28.2
1200° F (648° C)	26.0

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
