



Epic 80

DESCRIPTION: High alumina brick made from bauxite and high-purity clays. Available with tar impregnation for iron ladle working linings (-TI).

USES INCLUDE: Safety linings for ladles.
Working linings for ladles.
Tundishes.
EAF roofs.

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % - calcined basis)

Al ₂ O ₃	80.0%
SiO ₂	16.6%
TiO ₂	2.0%
Fe ₂ O ₃	1.8%
CaO	0.1%
MgO	0.1%
Alkalis	0.1%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%):	19.0
Bulk Density pcf (g/cm ³):	175 (2.80)
Cold Crushing Strength psi (MPa):	10150 (70)
Linear Reheat Expansion (%):	+ 0.5
Thermal Conductivity BTU/SF/HR2 (W/mk):	
@ 600°C	15.6 (2.25)

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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