



## INFORMATION BULLETIN

### Epic® 80

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**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 <sub>2</sub> O <sub>3</sub>	80.0%
SiO <sub>2</sub>	16.6%
TiO <sub>2</sub>	2.0%
Fe <sub>2</sub> O <sub>3</sub>	1.8%
CaO	0.1%
MgO	0.1%
Alkalis	0.1%

### TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%)	19.0
Bulk Density pcf (g/cm <sup>3</sup> )	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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