



## Epic 70 – High Alumina Brick

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**Epic 70:** Burned alumina brick, made with bauxite.

**USES INCLUDE:** Electric Furnace Sidewalls  
Ladle linings  
Ladle safety linings

### Typical Chemical Analysis

Approximate % - calcined basis

Al <sub>2</sub> O <sub>3</sub>	72.0%
SiO <sub>2</sub>	18.0%
TiO <sub>2</sub>	2.8%
Fe <sub>2</sub> O <sub>3</sub>	1.8%
CaO	0.2%
MgO	0.1%
Alkalies	0.3%

### Typical Physical Properties

Apparent Porosity, %	19
Bulk Density g/cm <sup>3</sup>	2.62
Linear Reheat Expansion, %	+ 0.5
Cold Crushing Strength, mPa	80

**Note:** 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.

(REV 6/05)