

PRODUCT

**S-80**  
**HIGH ALUMINA FIREBRICK**

**REFRACTORIES**

**TECHNICAL DATA**

CLASSIFICATION

ASTM C-27  
80% High Alumina

P.C.E.

Cone 37 – 38

METHOD OF MANUFACTURE

Dry Press

CHEMICAL ANALYSIS (approximate)

Alumina	[Al <sub>2</sub> O <sub>3</sub> ]	79.6%
Silica	[SiO <sub>2</sub> ]	14.1%
Iron Oxide	[Fe <sub>2</sub> O <sub>3</sub> ]	1.5%
Titania	[TiO <sub>2</sub> ]	3.5%
Alkalies	[Na <sub>2</sub> O + K <sub>2</sub> O + Li <sub>2</sub> O]	0.3%
Phosphorus Pentoxide	[P <sub>2</sub> O <sub>5</sub> ]	0.7%
Other		0.3%

MODULUS OF RUPTURE

1700 – 2200 psi

COLD CRUSHING STRENGTH

7000 – 11000 psi

BULK DENSITY

172 – 176 lbs./cu.ft.

APPARENT POROSITY

16 – 19%

REHEAT LINEAR CHANGE 2910°F (1600°C)

+4.0% to +5.5%

NOTE: All data subject to reasonable deviation and should not be used for specification purposes.

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