

PRODUCT

**S-50**  
HIGH ALUMINA FIREBRICK

**REFRACTORIES**

**TECHNICAL DATA**

CLASSIFICATION

ASTM C-27  
50% High Alumina

P.C.E.

Cone 34 – 35

METHOD OF MANUFACTURE

Dry Press

CHEMICAL ANALYSIS (approximate)

|                      |  |       |
|----------------------|--|-------|
| Alumina              | [Al <sub>2</sub> O <sub>3</sub> ]                          | 49.6% |
| Silica               | [SiO <sub>2</sub> ]  | 44.4% |
| Iron Oxide           | [Fe <sub>2</sub> O <sub>3</sub> ]                          | 1.5%  |
| Titania              | [TiO <sub>2</sub> ]  | 2.1%  |
| Alkalies             | [Na <sub>2</sub> O + K <sub>2</sub> O + Li <sub>2</sub> O] | 1.2%  |
| Phosphorus Pentoxide | [P <sub>2</sub> O <sub>5</sub> ]                           | 0.5%  |
| Other                |  | 0.7%  |

MODULUS OF RUPTURE

1050 – 1250 psi

COLD CRUSHING STRENGTH

3500 – 4500 psi

BULK DENSITY

143 – 147 lbs./cu.ft.

APPARENT POROSITY

17 – 20 %

REHEAT LINEAR CHANGE 2910°F (1600°C)

+1.0% to +2.5%

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

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