

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 ₂ O ₃]	49.6%
Silica	[SiO ₂]	44.4%
Iron Oxide	[Fe ₂ O ₃]	1.5%
Titania	[TiO ₂]	2.1%
Alkalies	[Na ₂ O + K ₂ O + Li ₂ O]	1.2%
Phosphorus Pentoxide	[P ₂ O ₅]	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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