



**TECHNICAL DATA - TYPICAL**

**REFRACTORY BRICK**

**CB 70D**

Classification	A high purity 70% alumina refractory brick	
Refractoriness P.C.E.	Cone 37 - 38	
Bulk Density	145-153 lbs/ft <sup>3</sup>	(2.32-2.45 g/cm <sup>3</sup> )
Cold Crushing Strength	4000-6000 lbs/in <sup>2</sup>	(28-41 MPa)
Modulus of Rupture	900-1400 lbs/in <sup>2</sup>	(6.2-9.7 MPa)
Apparent Porosity (%)	20-24%	
Linear Change on Reheating 2910°F (1600°C) for 5 Hours	+0.5% to +1.4%	

**Chemical Analysis %**

Silica	SiO <sub>2</sub>	22-25%
Alumina	Al <sub>2</sub> O <sub>3</sub>	68-72%
Titania	TiO <sub>2</sub>	2.4-2.8%
Iron	Fe <sub>2</sub> O <sub>3</sub>	1.2-1.6%
Lime	CaO	0.1-0.3%
Magnesia	MgO	0.1-0.3%
Alkalis	Na <sub>2</sub> O + K <sub>2</sub> O	0.2-0.4%

ASTM Designation C27-84 70% Alumina