



**TECHNICAL DATA - TYPICAL**  
**REFRACTORY BRICK**  
**FLAME - LOW DUTY FIREBRICK**

Classification	A general purpose low duty refractory brick with excellent strength	
Refractoriness P.C.E.	Cone 16-23	
Bulk Density	124-132 lbs/ft <sup>3</sup>	(1.99-2.12 g/cm <sup>3</sup> )
Cold Crushing Strength	2500-5000 lbs/in <sup>2</sup>	(17-34 MPa)
Modulus of Rupture	600-1200 lbs/in <sup>2</sup>	(4.1-8.3 MPa)
Apparent Porosity (%)	20-24%	
Linear Change on Reheating 2350°F (1290°C) for 5 Hours	-0.1%	
<u>Chemical Analysis (%)</u>		
Silica	SiO <sub>2</sub>	58-63%
Alumina	Al <sub>2</sub> O <sub>3</sub>	24-29%
Titania	TiO <sub>2</sub>	1.0-2.0%
Iron	Fe <sub>2</sub> O <sub>3</sub>	6.0-8.0%
Lime	CaO	0.5-1.5%
Magnesia	MgO	0.5-1.5%
Alkalis	Na <sub>2</sub> O + K <sub>2</sub> O	1.0-2.0%
ASTM Designation	C27-84 - Low Duty	