

KORUNDAL XD®



Product Data

9/08: 2278

Description: High Alumina Brick

Chemical Analysis: Approximate (Calcined Basis)

Silica (SiO ₂)	9.6%
Alumina (Al ₂ O ₃)	90.2%
Iron Oxide (Fe ₂ O ₃)	Trace
Titania (TiO ₂)	Trace
Lime (CaO)	Trace
Magnesia (MgO)	0.1%
Alkalies (Na ₂ O + K ₂ O)	0.1%

Physical Data (Typical)

Bulk Density	190 lb/ft ³ (3.04 g/cm ³)
Modulus of Rupture	lb/in. ² (MPa)
At 70°F (21°C)	2,300 (15.9)
At 2700°F (1482°C)	1,200 (8.3)
Cold Crushing Strength	11,400 lb/in. ² (78.6 MPa)
Permanent Linear Change	
After 3140°F (1727°C)	+0.7%
Apparent Porosity	15.4%
Load Test, 25 psi (1.8 kg/cm ²)	
Linear Subsidence After 3000°F (1650°C), 100 hours	0.15%
Creep Test, DIN Furnace 28.4 psi (2.0 kg/cm ²)	
Subsidence in Period between 20-50 hours hold	
At 2800°F (1538°C)	0.22%

Note: The test data shown are based on average results on production samples and are subject to normal variation on individual tests. The test data cannot be taken as minimum or maximum values for specification purposes. ASTM test procedures used when applicable.