



Product Data

1/05: 2278

KORUNDAL XD®

Classification: High Alumina Brick

Physical Data: (Typical)

English Units

SI Units

	<u>lb/ft³</u>		<u>g/cm³</u>
Bulk Density	190		3.04
Apparent Porosity		15.4%	
Crushing Strength At 70°F (21°C)	<u>lb/in²</u> 11,400		<u>MPa</u> 78.6
Modulus of Rupture At 70°F (21°C)	2,300		15.9
At 2700°F (1482°C)	1,200		8.3
Reheat Test Permanent Linear Change After Heating at 3140°F (1727°C)		+0.7%	
Load Test, 25 psi (1.8 kg/cm ²) % Linear Subsidence After Heating at 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%	

Chemical Analysis: (Approximate)
(Calcined Basis)

Silica	(SiO ₂)	9.7 %
Alumina	(Al ₂ O ₃)	90.0
Titania	(TiO ₂)	Trace
Iron Oxide	(Fe ₂ O ₃)	Trace
Lime	(CaO)	Trace
Magnesia	(MgO)	0.1
Alkalies	(Na ₂ O+K ₂ O)	0.1

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.

01/05 Dev.