

# TUFLINE® 98 DM



## Product Data

8/08: 3659

Description: High Alumina Brick

### Chemical Analysis: Approximate (Calcined Basis)

Silica (SiO <sub>2</sub> )	0.12%
Alumina (Al <sub>2</sub> O <sub>3</sub> )	97.6%
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.09%
Titania (TiO <sub>2</sub> )	0.05%
Lime (CaO)	0.04%
Magnesia (MgO)	0.16%
Other Oxides	1.94%

### Physical Data (Typical)

Bulk Density	204 lb/ft <sup>3</sup> (3.27 g/cm <sup>3</sup> )
Modulus of Rupture	lb/in. <sup>2</sup> (MPa)
At 70°F (21°C)	2,000 (13.8)
At 2700°F (1482°C)	800 (5.5)
Cold Crushing Strength	7,500 lb/in. <sup>2</sup> (51.7 MPa)
Permanent Linear Change	
After 3140°F (1727°C)	0.0%
Apparent Porosity	14.6%
Creep Test, DIN Furnace 28.4 psi (2.0 kg/cm <sup>2</sup> )	
Subsidence in Period between 20-50 hours hold	
At 2800°F (1538°C)	0.15%

Note: The data given above are based on averages of the results of a small number of test specimens made in the laboratory. Variation from the above data may occur in individual tests and in large scale plant production. The test data cannot be taken as minimum or maximum values for specification purposes. ASTM test procedures used when applicable.