EMPIRE® DP

HarbisonWalker International

Product Data

6/15: 143C

Description: High Duty Fireclay Brick	

Chemical Analysis: Approximate (Calcined Basis)	
Silica (SiO_2)	52.0%
Alumina (Al_2O_3)	43.0%
Iron Oxide (Fe_2O_3)	1.3%
Titania (TiO_2)	2.3%
Lime (CaO)	0.2%
Magnesia (MgO)	0.3%
Alkalies ($Na_2O + K_2O$)	0.9%

Physical Data (Typical)	
Bulk Density	142 lb/ft^3 (2.27 g/cm^3)
Modulus of Rupture	1,300 lb/in.^{2} (9.0 MPa)
Permanent Linear Change	
After 2550°F (1399°C)	-0.1%
Apparent Porosity	14.5%
Hot Load Test	
Deformation at 2460°F (1349°C)	1.3%
Pyrometric Cone Equivalent	
Orton Standard Cones	32 – 32 ½

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.