



Brick

Limited Data

80 D

(Limited Data)

Classification: 80D is a high purity, hard burned, very low porosity 45% alumina brick.

<u>Physical Data: (Typical)</u>	<u>English Units</u>	<u>SI Units</u>
Bulk Density – ASTM C134	$\frac{\text{lb/ft}^3}{151}$	$\frac{\text{kg/m}^3}{2419}$
Apparent Porosity – ASTM C830		7.5%
Modulus of Rupture – ASTM C133 At 70°F (21°C)	$\frac{\text{lb/in}^2}{2500}$	$\frac{\text{N/mm}^2}{17.2}$
Crushing Strength – ASTM C133 At 70°F (21°C)	12,000	82.7
Permanent Linear Change, %: 2910°F (1600°C) & 5 Hours		0.0

Chemical Analysis: (Approximate)
(Calcined Basis)

Alumina	(Al ₂ O ₃)	45.8%
Silica	(SiO ₂)	50.5%
Iron Oxide	(Fe ₂ O ₃)	0.7%
Titania	(TiO ₂)	1.8%
Magnesia	(MgO)	0.1%
Alkalies	(Na ₂ O & K ₂ O)	1.1%

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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