



PRODUCT DATA

Brand Name: ALUMEX® P-8

Description: ALUMEX® P-8 is more refractory than the ALUMEX® P-7 quality, and possesses exceptional strength. It has excellent resistance to thermal spalling and is recommended for applications where very dense brick with low porosity are required and where operating temperatures are more severe.

Physical properties shown are averages based on standard brick sizes.

ASTM test methods used where applicable

Bulk Density (pcf)

As Received 173 (2.77 g/cm³)

Modulus of Rupture (psi)

At 70°F (21°C) 2200 (155 kg/cm²)

Cold Crushing Strength (psi)

At 70°F (21°C) 11500 (805 kg/cm²)

Apparent Porosity (%)

As Received 12

Permanent Linear Change (%)

After 2950°F (1621°C) +2.0

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	76.5
Silica (SiO ₂)	14.1
Iron Oxide (Fe ₂ O ₃)	1.6
Titania (TiO ₂)	3.2
Lime (CaO)	0.5
Magnesia (MgO)	0.6
Phosphorus Pentoxide (P ₂ O ₅)	3.0
Alkalis (Na ₂ O+K ₂ O)	0.5

Brand Code: 1217

The properties shown on this data sheet represent typical average results 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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