



PRODUCT DATA

Brand Name: **ALUMEX® P-85 HS**

Description: ALUMEX® P-85 HS exhibits a combination of very high strengths, high abrasion resistance, and excellent thermal shock resistance. Its high purity composition yields a refractory product that can withstand severe alkali attack.

Physical properties shown are averages based on standard brick sizes.
ASTM test methods used where applicable

Bulk Density (pcf)

As Received 174 (2.79 g/cm³)

Modulus of Rupture (psi)

At 70°F (21°C) 2500 (175 kg/cm²)

Cold Crushing Strength (psi)

At 70°F (21°C) 14000 (980 kg/cm²)

Apparent Porosity (%)

As Received 13.8

Permanent Linear Change (%)

After 2950°F (1621°C) +0.4

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	79.2
Silica (SiO ₂)	10.2
Iron Oxide (Fe ₂ O ₃)	1.7
Titania (TiO ₂)	3.1
Lime (CaO)	0.3
Magnesia (MgO)	0.2
Phosphorus Pentoxide (P ₂ O ₅)	4.9
Alkalis (Na ₂ O+K ₂ O)	0.4

Brand Code: 1218

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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