



PRODUCT DATA

Brand Name:

KRICON® 34-5

Description:

KRICON® 34-5 is a chromia-containing, tabular alumina-based castable. The 5% chromia addition makes this low cement product ideal for high wear areas attacked by slags by improving volume stability and reducing the tendency for the formation of shrinkage cracks at very high temperatures. It can be used in steel, copper, and other applications requiring excellent corrosion resistance.

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 3400°F (1871°C)

Dry Material Required per Cubic Foot : 194 - 198 lbs.

Typical Water Required for Mixing (by weight) :

Vibration Casting 4.0 to 5.0%

Vibration Cast Data

Bulk Density (pcf)

After 220°F (104°C)	200 - 204	(3.20 - 3.27 g/cm ³)
After 2000°F (1093°C)	199 - 203	(3.19 - 3.25 g/cm ³)
After 2550°F (1400°C)	196 - 200	(3.14 - 3.20 g/cm ³)

Cold Crushing Strength (psi)

After 220°F (104°C)	5500 - 6500	(385 - 455 kg/cm ²)
After 2000°F (1093°C)	15000 - 18000	(1050 - 1260 kg/cm ²)
After 2550°F (1400°C)	17000 - 20000	(1190 - 1400 kg/cm ²)

Modulus of Rupture (psi)

After 220°F (104°C)	1000 - 1500	(70 - 105 kg/cm ²)
After 2000°F (1093°C)	3500 - 4000	(245 - 280 kg/cm ²)
After 2550°F (1400°C)	5600 - 6100	(392 - 427 kg/cm ²)

Permanent Linear Change (%)

After 2000°F (1093°C)	0.0
After 2550°F (1400°C)	+0.1 to +0.3

Apparent Porosity (%)

After 2000°F (1093°C)	14 - 16
After 2550°F (1400°C)	13 - 15

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	93.7
Silica (SiO ₂)	0.1
Lime (CaO)	1.1
Chromic Oxide (Cr ₂ O ₃)	5.0
Iron Oxide (Fe ₂ O ₃)	Trace
Magnesia (MgO)	Trace
Alkalis (Na ₂ O+K ₂ O)	0.1

Standard Packaging: 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 0959

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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