



PRODUCT DATA

Brand Name: KRICON® 34

Description: KRICON® 34 is designed for service temperatures up to 3400°F. It is an extra high alumina castable featuring low porosity and low permeability while maintaining good thermal shock resistance. This mix is very pure at 99% alumina with a very low content of total impurities.

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)

Typical Water Required for Mixing (by weight) :

Vibration Casting 4.4 to 5.2%

Vibration Cast Data

Bulk Density (pcf)

After 220°F (104°C)	180 - 194	(2.58 - 2.74 g/cm ³)
After 1500°F (815°C)	190 - 194	(2.72 - 2.79 g/cm ³)
After 2000°F (1093°C)	190 - 194	(2.72 - 2.79 g/cm ³)

Cold Crushing Strength (psi)

After 220°F (104°C)	2800 - 9500	(490 - 910 kg/cm ²)
After 1500°F (815°C)	6000 - 9000	(560 - 1120 kg/cm ²)
After 2000°F (1093°C)	8000 - 11000	(700 - 1120 kg/cm ²)

Modulus of Rupture (psi)

After 220°F (104°C)	1200 - 1500	(126 - 182 kg/cm ²)
After 1500°F (815°C)	1500 - 1800	(98 - 154 kg/cm ²)
After 2000°F (1093°C)	2000 - 2700	(98 - 154 kg/cm ²)

Thermal Conductivity (K Factor)

	BTU/ft ² /hr/°F/inch	W/mK
After 1500°F (815°C)	22.9	3.30
After 2000°F (1093°C)	23.0	3.32

Permanent Linear Change (%)

After 1500°F (815°C)	-0.1 to 0.0
After 2000°F (1093°C)	-0.1 to 0.0

Apparent Porosity (%)

After 1500°F (815°C)	14 - 16
After 2000°F (1093°C)	15 - 18

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	98.7
Silica (SiO ₂)	0.1
Lime (CaO)	1.0
Iron Oxide (Fe ₂ O ₃)	0.1
Titania (TiO ₂)	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: 0961

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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