



PRODUCT DATA

Brand Name: KRICON® 32

Description: KRICON® 32 is designed for service temperatures up to 3200°F. It is a high alumina, low iron castable with excellent hot modulus of rupture strengths.

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

Maximum Service Temperature: 3200°F (1760°C)

Typical Water Required for Mixing (by weight) :

Vibration Casting 4.5 to 5.5%

	Vibration Cast Data	
<u>Bulk Density (pcf)</u>		
After 220°F (104°C)	150 - 161	(2.40 - 2.58 g/cm ³)
After 1500°F (815°C)	150 - 161	(2.40 - 2.58 g/cm ³)
After 2000°F (1093°C)	157 - 163	(2.51 - 2.61 g/cm ³)
<u>Cold Crushing Strength (psi)</u>		
After 220°F (104°C)	6000 - 11000	(420 - 770 kg/cm ²)
After 1500°F (815°C)	6500 - 11000	(455 - 770 kg/cm ²)
After 2000°F (1093°C)	7700 - 13700	(539 - 959 kg/cm ²)
<u>Modulus of Rupture (psi)</u>		
After 220°F (104°C)	1300 - 2300	(91 - 161 kg/cm ²)
After 1500°F (815°C)	1700 - 2700	(119 - 189 kg/cm ²)
After 2000°F (1093°C)	3200 - 4200	(224 - 294 kg/cm ²)
<u>Thermal Conductivity (K Factor)</u>		
	<u>BTU/ft²/hr/°F/inch</u>	<u>W/mK</u>
After 1500°F (815°C)	14.4	2.08
After 2000°F (1093°C)	15.5	2.23
<u>Permanent Linear Change (%)</u>		
After 1500°F (815°C)	-0.4 to 0.0	
After 2000°F (1093°C)	-0.6 to 0.0	
<u>Apparent Porosity (%)</u>		
After 1500°F (815°C)	11 - 15	
After 2000°F (1093°C)	11 - 15	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	63.4
Silica (SiO ₂)	31.7
Lime (CaO)	1.2
Iron Oxide (Fe ₂ O ₃)	1.2
Titania (TiO ₂)	2.2
Magnesia (MgO)	0.2
Alkalis (Na ₂ O+K ₂ O)	0.2

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

Brand Code: 0956

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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