



# PRODUCT DATA

**Brand Name:** KRICON® 28

**Description:** KRICON® 28 is a good general purpose, low iron, low cement castable for service temperatures up to 2800°F.

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

**Maximum Service Temperature: 2800°F (1538°C)**

**Dry Material Required per Cubic Foot :** 136 - 142 lbs.

**Typical Water Required for Mixing (by weight) :**  
Vibration Casting ..... 4.0 to 6.0%

	<u>Vibration Cast Data</u>	
<b><u>Bulk Density (pcf)</u></b>		
After 220°F (104°C)	141 - 147	(2.26 - 2.35 g/cm <sup>3</sup> )
After 1500°F (815°C)	140 - 146	(2.24 - 2.34 g/cm <sup>3</sup> )
After 2000°F (1093°C)	138 - 144	(2.21 - 2.31 g/cm <sup>3</sup> )
<b><u>Cold Crushing Strength (psi)</u></b>		
After 220°F (104°C)	4500 - 10500	(315 - 735 kg/cm <sup>2</sup> )
After 1500°F (815°C)	4800 - 10800	(336 - 756 kg/cm <sup>2</sup> )
After 2000°F (1093°C)	4300 - 10300	(301 - 721 kg/cm <sup>2</sup> )
<b><u>Modulus of Rupture (psi)</u></b>		
After 220°F (104°C)	1000 - 2000	(70 - 140 kg/cm <sup>2</sup> )
After 1500°F (815°C)	1500 - 2500	(105 - 175 kg/cm <sup>2</sup> )
After 2000°F (1093°C)	1700 - 2700	(119 - 189 kg/cm <sup>2</sup> )
<b><u>Thermal Conductivity (K Factor)</u></b>		
	<u>BTU/ft<sup>2</sup>/hr/°F/inch</u>	<u>W/mK</u>
After 1500°F (815°C)	12.7	1.83
After 2000°F (1093°C)	13.9	2.00
<b><u>Permanent Linear Change (%)</u></b>		
After 1500°F (815°C)	-0.6 to 0.1	
After 2000°F (1093°C)	-0.7 to -0.1	
<b><u>Apparent Porosity (%)</u></b>		
After 1500°F (815°C)	8 - 12	
After 2000°F (1093°C)	9 - 13	

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	45.2
Silica (SiO <sub>2</sub> ) .....	48.4
Lime (CaO) .....	1.4
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.2
Titania (TiO <sub>2</sub> ) .....	1.8
Magnesia (MgO) .....	0.4
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	1.6

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

**Brand Code:** 0948

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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