



PRODUCT DATA

Brand Name: RESCOCAST 4LI

Description: RESCOCAST 4LI, a low iron, high purity, lightweight insulating castable, is especially formulated for use in controlled atmospheres such as methane, hydrogen, and carbon monoxide. RESCOCAST 4LI has been used in many heater applications, such as pre-fabricated panels, resulting in minimum downtime. RESCOCAST 4LI can be installed by either gunning or casting methods.

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

Maximum Service Temperature: 2600°F (1427°C)

Typical Water Required for Mixing (by weight) :

Cast 36.1%
Predampening for Gunning 8.3 - 10.4%

	Casting Data		Gunning Data	
Bulk Density (pcf)				
After 1500°F (815°C)	69	(1.11 g/cm ³)	85	(1.36 g/cm ³)
Cold Crushing Strength (psi)				
After 1500°F (815°C)	750	(52.5 kg/cm ²)	900	(63 kg/cm ²)
Thermal Conductivity (K Factor)				
Mean Temperature	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	2.7	0.39	3.4	0.49
1000°F (540°C)	2.3	0.33	2.9	0.42
1500°F (815°C)	2.6	0.39	3.2	0.46
Permanent Linear Change (%)				
After 1000°F (540°C)	-0.4 to 0.0		-0.4 to 0.0	
After 1500°F (815°C)	-0.3 to 0.0		-0.3 to 0.0	
Porosity (%)				
After 1000°F (540°C)	50.0		45.0	
Typical Chemical Analysis (%) (Calcined Basis)				
Alumina (Al ₂ O ₃)	44.1			
Silica (SiO ₂)	40.2			
Lime (CaO)	11.9			
Iron Oxide (Fe ₂ O ₃)	1.0			
Titania (TiO ₂)	0.9			
Magnesia (MgO)	0.2			
Alkalies (Na ₂ O+K ₂ O)	1.7			

Standard Packaging: 50 lb bag. 50 bags per pallet. Bulk packaging available.

Brand Code: 0331

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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03/21/17 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet.

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