



PRODUCT DATA

Brand Name: RESCOCAST 6

Description: RESCOCAST 6 is a high strength, special medium-weight heat insulating castable designed primarily for use in the petrochemical industry where higher strength and temperature requirements are needed. RESCOCAST 6 can be installed by both gunning and casting methods. For pumpcasting or shotcreting applications, RESCOCAST 6PC is recommended.

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

Maximum Service Temperature: 2400°F (1316°C)

Typical Water Required for Mixing (by weight) :

Cast 28.0%
 Predampening for Gunning 6.9 - 8.7%

	Casting Data		Gunning Data	
Bulk Density (pcf)				
After 1500°F (815°C)	75	(1.20 g/cm ³)	83	(1.33 g/cm ³)
Cold Crushing Strength (psi)				
After 1500°F (815°C)	1450	(102 kg/cm ²)	1650	(116 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	3.5	0.51
1000°F (540°C)	2.3	0.33	3.0	0.44
1500°F (815°C)	2.6	0.39	3.3	0.48
Permanent Linear Change (%)				
Green to 1500°F (815°C)	-0.4 to 0.0		-0.4 to 0.0	
230°F (110°C) to 1500°F (815°C)	-0.3 to 0.0		-0.3 to 0.0	

Porosity (%)
 After 1000°F (540°C) 44.0 40.0

Typical Chemical Analysis (%)
 (Calcined Basis)

Alumina (Al ₂ O ₃)	29.7
Silica (SiO ₂)	47.8
Lime (CaO)	13.0
Iron Oxide (Fe ₂ O ₃)	4.6
Titania (TiO ₂)	1.2
Magnesia (MgO)	1.4
Alkalies (Na ₂ O+K ₂ O)	2.3

Standard Packaging: 60 lb bag. Bulk packaging available.

Brand Code: 0332

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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