



PRODUCT DATA

Brand Name: RESCOCAST 7

Description: RESCOCAST 7 is the original "one shot" lining material for use in FCC regenerator and reactor vessel walls. Good strength combined with better insulating qualities and an economical cost make RESCOCAST 7 an ideal choice for many applications. Although primarily used as a gunning material, it can also be cast or troweled into place.

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 27.0%
Predampening for Gunning 8.3 - 10.4%

<u>Bulk Density (pcf)</u>	<u>Casting Data</u>		<u>Gunning Data</u>	
After 1500°F (815°C)	78	(1.25 g/cm ³)	90	(1.44 g/cm ³)
<u>Cold Crushing Strength (psi)</u>				
After 1500°F (815°C)	1950	(137 kg/cm ²)	2500	(175 kg/cm ²)
<u>Modulus of Rupture (psi)</u>				
After 1500°F (815°C)	250	(18 kg/cm ²)	600	(42 kg/cm ²)
<u>Thermal Conductivity (K Factor)</u>				
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)	3.1	0.39	3.7	0.54
1000°F (540°C)	2.6	0.33	3.2	0.46
1500°F (815°C)	2.9	0.39	3.5	0.51
<u>Permanent Linear Change (%)</u>				
Green to 1500°F (815°C)	-0.4 to 0.0		-0.4 to 0.0	
230°F (110°C) to 2400°F (1316°C)	-0.3 to 0.0		-0.3 to 0.0	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	32.4
Silica (SiO ₂)	45.5
Lime (CaO)	12.8
Iron Oxide (Fe ₂ O ₃)	4.3
Titania (TiO ₂)	1.4
Magnesia (MgO)	1.4
Alkalies (Na ₂ O+K ₂ O)	2.2

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

Brand Code: 0334

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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