



PRODUCT DATA

Brand Name: RESCOCAST 3B

Description: RESCOCAST 3B insulating castable is a 50 pcf density castable that can be installed by troweling, casting or conventional gunning methods.

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

Maximum Service Temperature: 2000°F (1095°C)

Typical Water Required for Mixing (by weight) :
Casting 52%
Pre dampening for Gunning 10.0 - 13.0%

Dry Material Required per Cubic Foot:
Casting 55 lbs
Gunning 60 lbs

<u>Bulk Density (pcf)</u>	<u>Casting Data</u>		<u>Gunning Data</u>	
After 1500°F (815°C)	53	(0.85 g/cm ³)	60	(0.96 g/cm ³)
<u>Cold Crushing Strength (psi)</u>				
After 1500°F (815°C)	400	(28 kg/cm ²)	300	(21 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)	1.9	0.28	2.8	0.41
1000°F (540°C)	1.4	0.20	2.3	0.33
1500°F (815°C)	1.7	0.25	2.6	0.38

<u>Permanent Linear Change (%)</u>		
Green to 1500°F (815°C)	-0.6 to 0.0	-0.6 to +0.8
230°C (110°C) to 1500°F (815°C)	-0.5 to 0.0	-0.6 to +0.8

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	32.7
Silica (SiO ₂)	42.1
Lime (CaO)	17.0
Iron Oxide (Fe ₂ O ₃)	3.1
Titania (TiO ₂)	1.2
Magnesia (MgO)	2.0
Alkalies (Na ₂ O+K ₂ O)	1.9

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

Brand Code: 0327

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.

RESCO PRODUCTS disclaims any express or implied warranties based on this sheet.

03/03/17 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.

One Robinson Plaza - Suite 300, 6600 Steubenville Pike, Pittsburgh, PA, 15205 Phone: 888-283-5505