



# PRODUCT DATA

**Brand Name:** RESCOCAST 3A

**Description:** RESCOCAST 3A is a lightweight, low iron, insulating castable which has a service limit temperature of 2500°F. It is used primarily where reducing atmospheres may be present. RESCOCAST 3A 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: 2500°F (1370°C)**

**Typical Water Required for Mixing (by weight) :**

Casting ..... 41.5%  
Predampening for Gunning..... 9.2 - 11.6%

	Casting Data		Gunning Data	
<b>Bulk Density (pcf)</b>				
After 1500°F (815°C)	62	(0.99 g/cm <sup>3</sup> )	75	(1.20 g/cm <sup>3</sup> )
<b>Cold Crushing Strength (psi)</b>				
After 1500°F (815°C)	600	(42 kg/cm <sup>2</sup> )	775	(53 kg/cm <sup>2</sup> )
<b>Thermal Conductivity (K Factor)</b>				
Mean Temperature	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	2.3	0.33	2.8	0.41
1000°F (540°C)	1.8	0.26	2.3	0.33
1500°F (815°C)	2.1	0.30	2.6	0.38
<b>Permanent Linear Change (%)</b>				
Green to 1500°F (815°C)	-0.6 to 0.0		-0.6 to 0.0	
230°C (110°C) to 1500°F (815°C)	-0.5 to 0.0		-0.5 to 0.0	
<b>Apparent Porosity (%)</b>				
After 1000°F (540°C)	50.0		45.0	

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	41.9
Silica (SiO <sub>2</sub> ) .....	44.6
Lime (CaO) .....	10.4
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.0
Titania (TiO <sub>2</sub> ) .....	0.8
Magnesia (MgO) .....	0.1
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	1.2

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

Brand Code: 0325

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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