



# PRODUCT DATA

**Brand Name:** RESCOCAST 3-35

**Description:** RESCOCAST 3-35 is an insulating castable with an operating temperature up to 2000°F, with a good strength to density ratio. It has been used as an insulating material in bi-wall linings and also as a single component lining where erosive conditions are not too severe. Unlike loose fill or insulating block, RESCOCAST 3-35 will not settle or disintegrate under adverse conditions.

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 ..... 80%  
Predampening for Gunning ..... 12 to 17%

	Casting Data		Gunning Data	
<b><u>Bulk Density (pcf)</u></b>				
After 1500°F (815°C)	37	(0.59 g/cm <sup>3</sup> )	43	(0.69 g/cm <sup>3</sup> )
<b><u>Cold Crushing Strength (psi)</u></b>				
After 1500°F (815°C)	100	(7 kg/cm <sup>2</sup> )	200	(14 kg/cm <sup>2</sup> )
<b><u>Thermal Conductivity (K Factor)</u></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)	1.05	0.15	1.00	0.16
1000°F (540°C)	1.15	0.17	1.25	0.18
1500°F (815°C)	1.25	0.19	1.45	0.21

<b><u>Permanent Linear Change (%)</u></b>		
After 1500°F (815°C)	-1.2 to -0.8	-1.2 to -0.5
After 2000°F (1540°C)	-2.0 to -1.0	-2.0 to -1.0

<b><u>Apparent Porosity (%)</u></b>	
After 1000°F (540°C)	60
	58

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	41.1
Silica (SiO <sub>2</sub> ) .....	31.3
Lime (CaO) .....	19.6
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	2.8
Titania (TiO <sub>2</sub> ) .....	0.3
Magnesia (MgO) .....	3.0
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	1.9

**Standard Packaging:** 35 lb bag. 50 bags per pallet. Bulk packaging available.

Brand Code: 0319

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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