



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	
Bulk Density (pcf)				
After 1500°F (815°C)	37	(0.59 g/cm ³)	43	(0.69 g/cm ³)
Cold Crushing Strength (psi)				
After 1500°F (815°C)	100	(7 kg/cm ²)	200	(14 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)	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

Permanent Linear Change (%)		
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

Apparent Porosity (%)		
After 1000°F (540°C)	60	58

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	41.1
Silica (SiO ₂)	31.3
Lime (CaO)	19.6
Iron Oxide (Fe ₂ O ₃)	2.8
Titania (TiO ₂)	0.3
Magnesia (MgO)	3.0
Alkalies (Na ₂ O+K ₂ 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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05/1/19 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.