



# Insulating Castables

## Product Data

### RESCOCAST 3-35P

**RESCOCAST 3-35P** is an insulating castable with an operating temperature up to 2000°F, and a good strength to density ratio. It can be 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 soft insulating block, **RESCOCAST 3-35P** will not settle or disintegrate under adverse conditions.

**Max. Service Temp:** 2000°F (1095°C)

**Bulk Density:** 25-29 lbs/ft<sup>3</sup> (400-464 kg/m<sup>3</sup>)

**Cold Crushing Strength:**

1500°F ( 815°C) 60-100 psi (4- 7 kg/cm<sup>2</sup>)  
2000°F (1095°C) 60-150 psi (4-11 kg/cm<sup>2</sup>)

**Permanent Linear Change(%):**

1000°F ( 540°C) -0.5 to -1.0  
1500°F ( 815°C) -0.5 to -1.3

**Thermal Conductivity or “K” Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /Hr/°F/in	W/mK
500°F (260°C)	0.95	0.14
1000°F (540°C)	1.05	0.15
1500°F (815°C)	1.15	0.17

**Typical Chemical Analysis(%):**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	TiO <sub>2</sub>	Alkalies
37.3	28.2	3.7	18.9	6.9	1.2	3.8

**Standard Packaging:** 50 - 25 lb. bags per pallet

The properties shown on this data sheet represent typical average results generated 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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05/04/12 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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## RESCOCAST 3-35P

### GUNITED DATA

RESCOCAST 3-35P can be readily applied by gunite application. Data shown are average results of tests following the guidelines set forth in ASTM C-903-70 "Preparing Refractory Concrete Specimens by Cold Gunning."

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

**Bulk Density:** 30-35 lbs/ft<sup>3</sup> (480-560 kg/m<sup>3</sup>)

**Cold Crushing Strength:**

1000°F (540°C)	100-200 psi (7-14 kg/cm <sup>2</sup> )
1500°F (815°C)	100-200 psi (7-14 kg/cm <sup>2</sup> )
1700°F (925°C)	100-200 psi (7-14 kg/cm <sup>2</sup> )

**Permanent Linear Change(%):**

1000°F (540°C)	-0.5 to -1.0
1500°F (815°C)	-0.5 to -1.3

**Conductivity or "K" Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /Hr/°F/in	W/mK
500°F (260°C)	1.05	0.15
1000°F (540°C)	1.15	0.16
1500°F (815°C)	1.25	0.18

**Standard Packaging:** 50 - 25lb. bags per pallet