



# PRODUCT DATA

**Brand Name:** RESCOCAST 3-35PC

**Description:** RESCOCAST 3-35PC 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 3-35PC 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) :**  
Pump Casting ..... 87%

<u>Bulk Density (pcf)</u>	<u>Pump Cast Data</u>	
After 1500°F (815°C)	33	(0.53 g/cm <sup>3</sup> )

<u>Cold Crushing Strength (psi)</u>		
After 1500°F (815°C)	138	(9.66 kg/cm <sup>2</sup> )
After 2000°F (1095°C)	138	(9.66 kg/cm <sup>2</sup> )

<u>Thermal Conductivity (K Factor)</u>	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
Mean Temperature		
500°F (260°C)	1.05	0.15
1000°F (540°C)	1.00	0.14
1500°F (815°C)	1.10	0.17

<u>Permanent Linear Change (%)</u>	
After 1000°F (540°C)	-1.0 to -0.5
After 1500°F (815°C)	-1.5 to -0.8
After 2000°F (1095°C)	-2.0 to -1.0

<u>Typical Chemical Analysis (%)</u>	
<u>(Calcined Basis)</u>	
Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	36.6
Silica (SiO <sub>2</sub> ) .....	33.5
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	2.0
Titania (TiO <sub>2</sub> ) .....	1.4
Lime (CaO) .....	20.8
Magnesia (MgO) .....	3.7
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	2.0

**Standard Packaging:** 25 lb bag. 50 bags per pallet. Bulk packaging available.

Brand Code: 0518

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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