



# PRODUCT DATA

**Brand Name:** RESCOCAST 3PC

**Description:** RESCOCAST 3PC is a high performance insulating castable designed for a variety of applications. Its pumpcast density is approximately 56 lbs/ft<sup>3</sup> and offers superior strength characteristics, as well as a high strength-to-insulation ratio. This material can be used as an original lining material or as a replacement for refractory ceramic fiber. RESCOCAST 3PC can be installed by casting, pumpcasting, or shotcreting methods.

Physical properties shown are average values of samples taken under controlled conditions  
ASTM test methods used where applicable

**Maximum Service Temperature: 2400°F (1316°C)**

**Typical Water Required for Mixing (by weight) :**  
Pump Cast ..... 38%

	Pump Cast Data	
<b>Bulk Density (pcf)</b>		
After 1500°F (815°C)	56	(0.96 g/cm <sup>3</sup> )
<b>Cold Crushing Strength (psi)</b>		
After 1500°F (815°C)	500	(35 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>
500°F (260°C)	1.70	0.25
1000°F (540°C)	1.70	0.24
1500°F (815°C)	1.80	0.26

**Permanent Linear Change (%)**  
230°F (110°C) to 1500°F (815°C) -1.5 to -0.8

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	31.8
Silica (SiO <sub>2</sub> ) .....	48.3
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	2.8
Titania (TiO <sub>2</sub> ) .....	0.6
Lime (CaO) .....	14.8
Magnesia (MgO) .....	0.1
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	1.6

**Standard Packaging:** 50 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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