



# PRODUCT DATA

**Brand Name:**

## RESCOCAST 17

**Description:** RESCOCAST 17 is a high temperature, high purity castable providing high strength and erosion resistance throughout its entire temperature range. It also has erosion resistant properties equal to those in the extreme service group of castables. Good physical properties and ease of application have made it a universally used product throughout all industries where high temperature and high strength are requirements.

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

**Maximum Service Temperature: 3000°F (1650°C)**

**Typical Water Required for Mixing (by weight) :**  
Cast ..... 9.5%

	Cast Data	
<b><u>Bulk Density (pcf)</u></b>		
After 1500°F (815°C)	133	(2.13 g/cm <sup>3</sup> )
<b><u>Cold Crushing Strength (psi)</u></b>		
After 1500°F (815°C)	7500	(525 kg/cm <sup>2</sup> )
After 2500°F (1370°C)	8500	(595 kg/cm <sup>2</sup> )
After 2750°F (1510°C)	8500	(595 kg/cm <sup>2</sup> )
<b><u>Modulus of Rupture (psi)</u></b>		
After 1500°F (815°C)	1350	(95 kg/cm <sup>2</sup> )
After 2500°F (1370°C)	1650	(116 kg/cm <sup>2</sup> )
After 2750°F (1510°C)	1850	(130 kg/cm <sup>2</sup> )
<b><u>Thermal Conductivity (K Factor)</u></b>	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
1000°F (538°C)	6.50	0.94
1500°F (815°C)	6.95	1.00
2000°F (1095°C)	7.35	1.06
<b><u>Permanent Linear Change (%)</u></b>		
After 1500°F (815°C)	-0.3 to 0.0	
After 2500°F (1370°C)	-1.0 to -0.5	
After 2750°F (1510°C)	-1.4 to -0.7	
<b><u>Abrasion Loss (using ASTM C-704 Method)</u></b>		
After 1500°F (815°C)	less than 15 cc	

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	53.2
Silica (SiO <sub>2</sub> ) .....	40.2
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.7
Titania (TiO <sub>2</sub> ) .....	1.2
Lime (CaO) .....	4.3
Magnesia (MgO) .....	0.2
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.2

**Standard Packaging:** 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 0480

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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