



# PRODUCT DATA

**Brand Name:**

## RESCOCAST 17AC

**Description:** RESCOCAST 17AC is a high temperature, high purity alumina conventional castable with only trace amounts of silica and iron oxide. The high purity of this castable makes it an ideal choice for reducing atmospheres containing hydrogen and/or carbon monoxide. This product should be installed using vibration casting methods.

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

**Maximum Service Temperature: 3400°F (1870°C)**

**Typical Water Required for Mixing (by weight) :**

Vibration Casting ..... 7.7%

### Cast Data

**Bulk Density (pcf)**

After 220°F (105°C)	180	(2.88 g/cm <sup>3</sup> )
After 1500°F (815°C)	174	(2.79 g/cm <sup>3</sup> )

**Cold Crushing Strength (psi)**

After 1500°F (815°C)	9500	(665 kg/cm <sup>2</sup> )
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**Thermal Conductivity (K Factor)**

	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	18.3	2.66
1000°F (538°C)	18.0	2.61
1500°F (815°C)	18.2	2.64

**Permanent Linear Change (%)**

Green to 1500°F (815°C)	-0.4 to 0.0
230°F (110°C) to 1500°F (815°C)	-0.3 to 0.0

**Abrasion Loss (using ASTM C-704 Method)**

After 1500°F (815°C)	less than 15 cc
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**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	94.9
Silica (SiO <sub>2</sub> ) .....	0.1
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.1
Titania (TiO <sub>2</sub> ) .....	Trace
Lime (CaO) .....	4.6
Magnesia (MgO) .....	0.1
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: 0437

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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