



# PRODUCT DATA

Brand Name:

## RESCOCAST 17ACS

Description: A high purity 94% alumina castable formulated to withstand high temperatures and reducing conditions, such as hydrogen-containing and carbon monoxide-containing atmospheres. The product should be installed by vibration casting methods only.

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 ..... 7.6%

### Cast Data

#### Bulk Density (pcf)

After 220°F (105°C)	174	(2.78 g/cm <sup>3</sup> )
After 1500°F (815°C)	170	(2.72 g/cm <sup>3</sup> )

#### Cold Crushing Strength (psi)

After 1500°F (815°C)	11800	(826 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 (%)

After 1500°F (815°C)	-0.2 to 0.0
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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: 0609

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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