

PRODUCT DATA



Extreme Service Castables

Cast 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.

Maximum Service Temperature 3400°F (1870°C)

Typical Water Content (%) 7.7

Typical Mix Time (minutes) 5

Bulk Density (lb/ft³)

After 220°F (105°C) 180 (2880 kg/m³)

After 1500°F (815°C) 174 (2784 kg/m³)

Cold Crushing Strength (lb/in²)

After 1500°F (815°C) 7,000 to 12,000 (490-840 kg/cm²)

Permanent Linear Change (%)

Green to 1500°F (815°C) 0.0 to -0.4

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

Thermal Conductivity or "K" Factor

Mean Temperature	BTU/ft ² /Hr/°F/in.	W/mK
500°F (260°C)	18.3	2.66
1000°F (540°C)	18.0	2.61
1500°F (815°C)	18.2	2.64

Typical Chemical Analysis (%)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalies
94.9	0.1	0.1	tr.	4.6	0.1	0.2

Brand Code 0437, Shelf Life 12 Months

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions (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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