

PRODUCT DATA



Insulating Castables

Cast Data

Brand Name: Rescocast 6

Description: RESCOCAST 6 is a high strength, special medium-weight heat insulating castable designed primarily for use in the petrochemical industry where higher strength and temperature requirements are needed. RESCOCAST 6 can be installed by both gunning and casting methods. For pumpcasting or shotcreting applications, RESCOCAST 6PC is recommended.

Maximum Service Temperature 2400°F (1316°C)

Typical Water Content (%) 28.0

Typical Mix Time (minutes) 3

Bulk Density (pcf)

After 1500°F (815°C) 75 (1200 kg/m³)

Cold Crushing Strength (psi)

After 1500°F (815°C) 1100 to 1800 (77-126 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

Apparent Porosity, %

After 1000°F (540°C) 44%

Thermal Conductivity or "K" Factor

Mean Temperature	BTU/ft ² /Hr/°F/in.	W/mK
500°F (260°C)	2.7	0.39
1000°F (540°C)	2.3	0.33
1500°F (815°C)	2.6	0.38

Typical Chemical Analysis (%)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalies
29.7	47.8	4.6	1.2	13.0	1.4	2.3

Brand Code 0332, 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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PRODUCT DATA



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Gunned Data

Brand Name: **Rescocast 6**

Data shown are the average results of tests following the guidelines set forth in ASTM C-903, "Preparing Refractory Castable Specimens by Cold Gunning." Results will vary subject to normal variations in manufacturing, testing, and installation procedures in the field.

Maximum Service Temperature 2400°F (1316°C)

Bulk Density (pcf)

After 1500°F (815°C) : 83 (1328 kg/m³)

Cold Crushing Strength (psi)

After 1500°F (815°C) : 1500 to 1800 (105 to 126 kg/cm²)

Permanent Linear Change (%)

Green to fired: after firing to 1500°F (815°C) 0.0 to -0.4

Dried to fired: dried to 220°F, fired to 1500°F (815°C) 0.0 to -0.3

Apparent Porosity, %

After 1000°F (540°C) 40%

Thermal Conductivity or "K" Factor

Mean Temperature	BTU/ft ² /Hr/°F/in.	W/mK
500°F (260°C)	3.5	0.51
1000°F (540°C)	3.0	0.44
1500°F (815°C)	3.3	0.48

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