

PRODUCT DATA



Insulating Castables

Cast Data

Brand Name: Rescocast 6PC

Description: RESCOCAST 6PC is a high strength, medium weight insulating castable designed primarily for pumpcasting and shotcreting installation methods. RESCOCAST 6PC can also be installed using standard casting methods. It has been applied by pumpcasting on both regenerator and reactor vessel walls, as well as in fired heaters. Pumpcasting and shotcreting methods produce a uniform, lamination free lining when compared to gunned linings.

Maximum Service Temperature 2400°F (1316°C)

Typical Water Content (%) 25.0

Typical Mix Time (minutes) 5

Bulk Density (pcf)

After 1500°F (815°C) 86 (1376 kg/m³)

Cold Crushing Strength (psi)

After 1500°F (815°C) 1500 to 2000 (105-140 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)	3.4	0.49
1000°F (540°C)	3.0	0.44
1500°F (815°C)	3.3	0.48

Typical Chemical Analysis (%)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalies
35.7	45.3	2.8	1.3	12.9	0.8	1.2

Brand Code 0462, 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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