

PRODUCT DATA



Insulating Castables

Cast Data

Brand Name: Rescocast 9

Description: RESCOCAST 9 combines the qualities of an insulating and a general duty castable. High strength and good protection against heat loss have made this product an ideal choice for the gunning of FCC regenerator and reactor walls. RESCOCAST 9 has been used throughout the world for this and other critical applications. RESCOCAST 9 can be installed by either casting or gunning. For pumpcasting or shotcreting applications, Rescocast 9LI PC is recommended.

Maximum Service Temperature 2600°F (1427°C)

Typical Water Content (%) 25.0

Typical Mix Time (minutes) 3

Bulk Density (pcf)

After 1500°F (815°C) 90 (1440 kg/m³)

Cold Crushing Strength (psi)

After 1500°F (815°C) 600 to 2000 (42-140 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

Apparent Porosity, %

After 1000°F (540°C) 43%

Thermal Conductivity or "K" Factor

Mean Temperature	BTU/ft ² /Hr/°F/in.	W/mK
500°F (260°C)	3.8	0.55
1000°F (540°C)	3.3	0.48
1500°F (815°C)	3.6	0.52

Typical Chemical Analysis (%)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalies
39.1	44.4	1.4	1.4	12.4	0.3	1.0

Brand Code 0576, 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 9**

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 2600°F (1427°C)

Bulk Density (pcf)

After 1500°F (815°C) : 95 (1520 kg/m³)

Cold Crushing Strength (psi)

After 1500°F (815°C) : 800 to 2200 (56 to 154 kg/cm³)

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) 40%

Thermal Conductivity or "K" Factor

Mean Temperature	BTU/ft ² /Hr/°F/in.	W/mK
500°F (260°C)	4.4	0.64
1000°F (540°C)	3.9	0.57
1500°F (815°C)	4.2	0.61

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