

PRODUCT DATA



Insulating Castables

Cast Data

Brand Name: Rescocast 3

Description:

RESCOCAST 3 is a high performance insulating castable designed for a variety of applications. Its density is approximately 60 lb/ft³ and offers superior strength characteristics, as well as a high strength-to-insulation ratio. This material can be used as an original lining material or as a replacement for refractory ceramic fiber. RESCOCAST 3 can be installed by either gunning or casting methods. For pumpcasting or shotcreting applications, RESCOCAST 3 PC is recommended.

Maximum Service Temperature 2400°F (1316°C)

Bulk Density (pcf) Using API RP 936 Method

After 1500°F (815°C) 60 (960 kg/m³)

Cold Crushing Strength (psi) using ASTM C-133 Method

After 1500°F (815°C) 400 to 700 (28-49 kg/cm²)

Modulus of Rupture (psi)

After 1500°F (815°C) 100 to 200 (7-14 kg/cm²)

Permanent Linear Change (%) using API RP 936 Method

Green to fired: after firing to 1500°F (815°C) 0.0 to -0.5

Dried to fired: dried to 220°F, fired to 1500°F (815°C) 0.0 to -0.4

Apparent Porosity, %

After 1000°F (540°C) 55%

Thermal Conductivity or "K" Factor

Mean Temperature	BTU/ft ² /Hr/°F/in.	W/mK
500°F (260°C)	2.3	0.33
1000°F (540°C)	1.8	0.26
1500°F (815°C)	2.1	0.30

Typical Chemical Analysis (%)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalies
31.8	48.3	2.8	0.6	14.8	0.1	1.6

Standard Packaging: 50 lb bag; 50 bags per pallet (Bulk Packaging Available)

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: **Rescicast 3**

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.

Bulk Density (pcf)

After 1500°F (815°C) : 70 to 80 (1120 to 1280 kg/m³)

Cold Crushing Strength (psi)

After 1500°F (815°C) : 500 to 900 (35 to 63 kg/cm³)

Modulus of Rupture (psi)

After 1500°F (815°C) 300 to 500 (21-35 kg/cm²)

Permanent Linear Change (%)

Green to Fired (to 1500°F) 0.0 to -0.5

Dried to fired: dried to 220°F, fired to 1500°F (815°C) 0.0 to -0.4

Thermal Conductivity or "K" Factor

500°F (260°C) 2.8 0.41

1000°F (540°C) 2.3 0.33

1500°F (815°C) 2.6 0.38

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