

PRODUCT DATA



Insulating Castables

Cast Data

Brand Name: Rescocast 9LI

Description:

RESCOCAST 9LI 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 9LI** has been used throughout the world for this and other critical applications. **RESCOCAST 9LI** 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)

Bulk Density (pcf) Using API RP 936 Method

After 1500°F (815°C) 90 (1440 kg/m³)

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

After 1500°F (815°C) 600 to 1000 (42-70 kg/cm²)

Modulus of Rupture (psi)

After 1500°F (815°C) 150 to 300 (21-35 kg/cm²)

Permanent Linear Change (%) using API RP 936 Method

Dried to fired: after firing to 1500°F (815°C) 0.0 to -0.3
Dried to fired: after firing to 2600°F (1427°C) 0.0 to +1.5

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
39.7	46.2	1.0	0.9	12.0	trace	0.8

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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GUNNED DATA SHOWN ON PAGE 2

PRODUCT DATA



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Gunned Data

Brand Name: **Rescocast 9LI**

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)	
<u>Bulk Density (pcf)</u>		
After 1500°F (815°C) :	90 to 100	(1440 to 1600 kg/m ³)
<u>Cold Crushing Strength (psi)</u>		
After 1500°F (815°C) :	800 to 1200	(56 to 84 kg/cm ³)
<u>Modulus of Rupture (psi)</u>		
After 1500°F (815°C)	300 to 500	(21-35 kg/cm ²)
<u>Permanent Linear Change (%)</u>		
Dried to Fired (to 1500°F) :	0.0 to -0.3 %	
Dried to Fired (to 2600°F) :	0.0 to +1.5 %	
<u>Apparent Porosity, %</u>		
After 1000°F (540°C)	40%	
<u>Thermal Conductivity or "K" Factor</u>		
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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Penn Center West, Building 2 - Suite 430, Pittsburgh, PA, 15276

Phone: 888-283-5505