



# PRODUCT DATA

## RESCOCAST 9LI

**Brand Name:**

**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.

Physical properties shown are average values of samples taken under controlled conditions  
ASTM test methods used where applicable

**Maximum Service Temperature: 2600°F (1427°C)**

**Typical Water Required for Mixing (by weight) :**

Cast ..... 24.00%  
Predampening for Gunning ..... 8.3 - 10.4%

	Casting Data		Gunning Data	
<b>Bulk Density (pcf)</b>				
After 1500°F (815°C)	90	(1.44 g/cm <sup>3</sup> )	95	(1.52 g/cm <sup>3</sup> )
<b>Cold Crushing Strength (psi)</b>				
After 1500°F (815°C)	800	(56 kg/cm <sup>2</sup> )	1000	(70 kg/cm <sup>2</sup> )
<b>Modulus of Rupture (psi)</b>				
After 1500°F (815°C)	225	(15.75 kg/cm <sup>2</sup> )	400	(28 kg/cm <sup>2</sup> )
<b>Thermal Conductivity (K Factor)</b>				
Mean Temperature	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	3.8	0.55	4.4	0.64
1000°F (540°C)	3.3	0.48	3.9	0.57
1500°F (815°C)	3.6	0.52	4.2	0.61
<b>Permanent Linear Change (%)</b>				
After 1500°F (815°C)	-0.3 to 0.0		-0.3 to 0.0	
After 2800°F (1540°C)	0.0 to +1.5		0.0 to +1.5	
<b>Porosity (%)</b>				
After 1000°F (540°C)	43.0		40.0	
<b>Typical Chemical Analysis (%)</b> (Calcined Basis)				
Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	39.7			
Silica (SiO <sub>2</sub> ) .....	46.2			
Lime (CaO) .....	12.0			
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.0			
Titania (TiO <sub>2</sub> ) .....	0.9			
Magnesia (MgO) .....	Trace			
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.8			

**Standard Packaging:** 50 lb bag. 50 bags per pallet. Bulk packaging available.

Brand Code: 0339

The properties shown on this data sheet represent typical average results using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (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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