



# PRODUCT DATA

**Brand Name:**

## RESCOLITE 24-75

**Description:** RESCOLITE 24-75 is a high strength, lightweight castable with a nominal 75 pcf density that can be installed by casting or conventional gunning methods.

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

**Maximum Service Temperature: 2400°F (1316°C)**

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

Casting ..... 27%  
Predampening for Gunning ..... 4%

<u>Bulk Density (pcf)</u>	<u>Casting Data</u>		<u>Gunning Data</u>	
After 220°F (105°C)	79	(1.26 g/cm <sup>3</sup> )	94	(1.50 g/cm <sup>3</sup> )
After 1500°F (815°C)	72	(1.15 g/cm <sup>3</sup> )	83	(1.33 g/cm <sup>3</sup> )
<u>Cold Crushing Strength (psi)</u>				
After 220°F (105°C)	2800	(196 kg/cm <sup>2</sup> )	5400	(378 kg/cm <sup>2</sup> )
After 1500°F (815°C)	2000	(140 kg/cm <sup>2</sup> )	3900	(273 kg/cm <sup>2</sup> )
<u>Modulus of Rupture (psi)</u>				
After 220°F (105°C)	500	(35 kg/cm <sup>2</sup> )	800	(56 kg/cm <sup>2</sup> )
After 1500°F (815°C)	200	(14 kg/cm <sup>2</sup> )	500	(35 kg/cm <sup>2</sup> )
<u>Thermal Conductivity (K Factor)</u>				
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)	2.3	0.33	2.8	0.41
1000°F (540°C)	1.8	0.26	2.3	0.33
1500°F (815°C)	2.1	0.30	2.6	0.38
<u>Permanent Linear Change (%)</u>				
Green to 1500°F (815°C)	-0.2 to 0.0		-0.3 to 0.0	
230°F (110°C) to 1500°F (815°C)	-0.1 to 0.0		-0.2 to 0.0	

### Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	36.5
Silica (SiO <sub>2</sub> ) .....	44.5
Lime (CaO) .....	11.2
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	3.8
Titania (TiO <sub>2</sub> ) .....	1.5
Magnesia (MgO) .....	1.0
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	1.5

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

Brand Code: 8967

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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03/23/17 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet.

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