

# PRODUCT DATA



## Insulating Castables

### Cast Data

**Brand Name:** **Rescocast 8**

**Description:** **RESCOCAST 8 is a medium weight**, insulating castable with a service limit temperature of 2800°F. A low iron content makes it suitable for most furnace atmospheres, including CO Boilers. **RESCOCAST 8** can be installed by either casting or gunning.

**Maximum Service Temperature** ..... 2800°F (1540°C)

### Bulk Density (pcf) Using API RP 936 Method

After 1500°F (815°C) 84 to 94 (1346-1506 kg/m<sup>3</sup>)

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

After 1500°F (815°C) 500 to 1400 (35-98 kg/cm<sup>2</sup>)

### 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 2800°F (1540°C) -1.2 to -2.0

### Apparent Porosity, %

After 1000°F (540°C) 40%

### Thermal Conductivity or "K" Factor

Mean Temperature	BTU/ft <sup>2</sup> /Hr/°F/in.	W/mK
500°F (260°C)	3.6	0.52
1000°F (540°C)	3.3	0.48
1500°F (815°C)	3.5	0.51

### Typical Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	Alkalies
45.8	45.2	0.7	1.0	6.0	0.1	1.2

**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:** **Rescocast 8**

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.

<b>Maximum Service Temperature</b> .....	2800°F (1540°C)	
<b><u>Bulk Density (pcf)</u></b>		
After 1500°F (815°C) :	95 to 105	(1520 to 1680 kg/m <sup>3</sup> )
<b><u>Cold Crushing Strength (psi)</u></b>		
After 1500°F (815°C) :	900 to 1800	(63 to 126 kg/cm <sup>3</sup> )
<b><u>Permanent Linear Change (%)</u></b>		
Dried to Fired (to 1500°F) :	0.0 to -0.3	
Dried to Fired (to 2800°F) :	-1.2 to -2.0	
<b><u>Apparent Porosity, %</u></b>		
After 1000°F (540°C)	40%	
<b><u>Thermal Conductivity or "K" Factor</u></b>		
Mean Temperature	BTU/ft <sup>2</sup> /Hr/°F/in.	W/mK
500°F (260°C)	4.2	0.61
1000°F (540°C)	3.9	0.57
1500°F (815°C)	4.1	0.60

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