



# General Duty Castables

## Product Data

### RESCOCAST 15

**RESCOCAST 15** is a hydraulic-setting, general duty castable with moderate resistance to abrasion and thermal shock. It is used in applications where high strength, moderate erosion resistance, and medium insulation values are required. Its ease of application by troweling, casting, or guniting makes it a material that can be easily installed.

**Maximum Service Temperature:** 2550°F (1440°C)

**Bulk Density:** 123 lbs/ft<sup>3</sup> (1968 kg/m<sup>3</sup>)

**Cold Crushing Strength:**  
1500°F ( 815°C) 2500-5000 psi (175-350 kg/cm<sup>2</sup>)  
2500°F (1370°C) 3500-5000 psi (245-350 kg/cm<sup>2</sup>)

**Modulus of Rupture:**  
1500°F ( 815°C) 400-600 psi (28-42 kg/cm<sup>2</sup>)  
2500°F (1370°C) 500-700 psi (35-49 kg/cm<sup>2</sup>)

**Permanent Linear Change(%):**  
1500°F ( 815°C) -0.1 to -0.3  
2000°F (1095°C) -0.1 to -0.6  
2500°F (1370°C) 0.0 to -1.4

**Conductivity or "K" Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /Hr/°F/in	W/mK
1000°F ( 540°C)	4.00	0.58
1500°F ( 815°C)	4.60	0.66
2000°F (1095°C)	5.30	0.76

**Typical Chemical Analysis(%):**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	TiO <sub>2</sub>	Alkalies	S
46.0	37.0	3.2	10.8	0.2	1.8	0.5	0.5

**Standard Packaging:** 72-55 lb. bags per pallet

The properties shown on this data sheet represent typical average results generated 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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## RESCOCAST 15

### GUNITE DATA

Data shown are average results of tests following the guidelines set forth in ASTM C-903-70, "Preparing Refractory Concrete Specimens by Cold Gunning". Results will vary subject to normal variations in manufacturing, testing, and installation procedures in the field.

**Maximum Service Temperature:** 2550°F (1400°C)

**Bulk Density:** 115-125 lbs/ft<sup>3</sup>(1840-2000 kg/m<sup>3</sup>)

**Cold Crushing Strength:**

1500°F ( 815°C) 2500-5000 psi (176-350 kg/cm<sup>2</sup>)  
2500°F (1370°C) 3000-5000 psi (210-350 kg/cm<sup>2</sup>)

**Modulus of Rupture:**

1500°F ( 815°C) 600- 900 psi (42-63 kg/cm<sup>2</sup>)  
2500°F (1370°C) 800-1200 psi (56-84 kg/cm<sup>2</sup>)

**Permanent Linear Change(%):**

1500°F ( 815°C) 0.0 to -0.3  
2000°F (1095°C) -0.1 to -0.6  
2500°F (1370°C) -0.3 to -1.5