



# PRODUCT DATA

## Brand Name: RESCOCAST 15HT

**Description:** RESCOCAST 15HT uses a higher purity binder, resulting in better physical properties than RESCOCAST 15 and superior resistance to chemical attack, particularly in reducing atmospheres. It can be applied by trowelling, gunning or casting which makes it a very versatile refractory.

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

**Maximum Service Temperature: 2700°F (1480°C)**

<u>Bulk Density (pcf)</u>	<u>Casting Data</u>		<u>Gunning Data</u>	
After 1500°F (815°C)	124	(1.99 g/cm <sup>3</sup> )	125	(2.00 g/cm <sup>3</sup> )
<u>Cold Crushing Strength (psi)</u>				
After 220°F (105°C)	4000	(280 kg/cm <sup>2</sup> )	---	---
After 1500°F (815°C)	3250	(228 kg/cm <sup>2</sup> )	2500	(175 kg/cm <sup>2</sup> )
After 2500°F (1370°C)	4000	(280 kg/cm <sup>2</sup> )	2500	(175 kg/cm <sup>2</sup> )
<u>Modulus of Rupture (psi)</u>				
After 220°F (105°C)	1250	(88 kg/cm <sup>2</sup> )	----	---
After 1500°F (815°C)	650	(46 kg/cm <sup>2</sup> )	650	(46 kg/cm <sup>2</sup> )
After 2500°F (1370°C)	1000	(70 kg/cm <sup>2</sup> )	850	(60 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>		
1000°F (538°C)	4.5	0.65		
1500°F (815°C)	4.8	0.69		
2000°F (1095°C)	5.2	0.75		
<u>Permanent Linear Change (%)</u>				
After 220°F (105°C)	-0.3 to 0.0		-0.3 to 0.0	
After 1500°F (815°C)	-0.3 to 0.0		-0.5 to -0.1	
After 2500°F (1370°C)	-1.0 to 0.0		-1.4 to -0.3	

### Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	49.3
Silica (SiO <sub>2</sub> ) .....	39.3
Lime (CaO) .....	8.3
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.1
Titania (TiO <sub>2</sub> ) .....	1.7
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.3

**Standard Packaging:** 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 0473

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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