

RESCOCAST 17FS3G

RESCOCAST 17FS3G is a fused silica gun mix designed to provide volume stability at temperatures below 2000°F. Low thermal conductivity, high resistance to thermal spalling and erosion are some of the unique properties. This product is for gunite applications only. It is less sensitive to lower installation temperatures and can be applied directly to the wall with minimum “aging.” Data shown are average results of tests following the guidelines set forth in ASTM C-903-70 “Preparing Refractory Concrete Specimens by Cold Gunning”.

<u>Maximum Service Temperature:</u>	2400°F (1316°C)	
<u>Bulk Density:</u>		
220°F (105°C)	120-126 lbs/ft ³ (1920-2016 kg/m ³)	
1500°F (815°C)	111-117 lbs/ft ³ (1776-1872 kg/m ³)	
<u>Cold Crushing Strength:</u>		
1500°F (815°C)	4500-9000 psi (315-630 kg/cm ²)	
<u>Modulus of Rupture:</u>		
1500°F (815°C)	700-1000 psi (49-70 kg/cm ²)	
<u>Permanent Linear Change(%):</u>		
1500°F (815°C)	0.0 to -0.2	
<u>Conductivity or “K” Factor:</u>		
Mean Temp.	BTU/ft ² /Hr/°F/in	W/mK
1000°F (540°C)	6.0	0.87
1500°F (815°C)	6.4	0.92
2000°F (1095°C)	6.8	0.98

Erosion Loss (ASTM C-704): Less than 20 cc

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalies
32.3	60.3	0.1	0.0	7.0	0.2	0.1

Standard Packaging: 72 – 25KG. 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 conditions 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. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 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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CAST DATA

RESCOCAST 17FS3G gunning grade material has been cast in the laboratory for testing and controlling the quality of the product. It is not recommended that the material be applied in the field by casting application methods. The results shown below are typical of laboratory cast specimens only.

Bulk Density:

220°F (105°C)	126 lbs/ft ³ (2016 kg/m ³)
1500°F (815°C)	119 lbs/ft ³ (1904 kg/m ³)

Cold Crushing Strength:

1500°F (815°C)	4500-9000 psi (315-630 kg/cm ²)
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Modulus of Rupture:

1500°F (815°C)	700-1000 psi (49-70 kg/cm ²)
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Permanent Linear Change(%):

1500°F (815°C)	-0.1 to -0.2
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Erosion Loss: (ASTM C-704)

Less than 20 cc

Porosity:

35%