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Technical Data Sheet Redline Red Hot G 70/5

Product # 52305

Available Internationally As:

Redline Red Hot G 70/5

Product Description:

A mullite based gunning mix which can be applied either hot or cold. It contains a silicon carbide addition to help resist corundum buildup. This material develops an excellent bond with existing refractory surfaces and was designed to be applied over worn linings in aluminum processing furnaces. It contains a non-wetting system and be applied both above and below metal line.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 9 months

Service Limit: 3100 °F 1700 °C

Contact Limit: 1700 °F 927 °C

Bulk Density - In Service: 141 pcf 2259 kg/m³

Bulk Density - To Place: 141 pcf 2259 kg/m³

Minimum Time To Firing: 24 hr

Abrasion Loss after 1500°F / 815°C
 per ASTM C704

N/A cc

Chemistry (calcined) %					
Al ₂ O ₃	66.7	Alk	0.3	MgO	0.2
SiO ₂	23.6	TiO ₂	0.3	ZrO ₂	
CaO	1.5	P ₂ O ₅		Other	
Fe ₂ O ₃	1.0	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min			
	max			
Pumping	min			
	max			

Coefficient of Thermal Expansion (reversible):	
x 10 ⁻⁶ in/in/°F	x 10 ⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C		
1000°F / 540°C		
1500°F / 815°C		
2000°F / 1090°C		

Temperature		Linear Change% per ASTM C113	CCS per ASTM C133		Cold MOR per ASTM C133		Hot MOR per ASTM C583	
°F	°C		psi	MPa	psi	MPa	psi	MPa
250	120	-0.2	2400	17.0	800	5.5		
1000	540	-0.3			750	5.2		
1500	820	-0.3	2000	13.8	700	4.8		
2000	1090	-0.2			770	5.3		
3000	1650	-1.4			2200	15.2		

Other Data:

Release Date: 1 Jun 2010

Heat Up Guide: Redline Schedule 3

ASTM Class:

Regular Castable

Refractory material should be stored in a cool, dry environment.

Note: All data are averaged results of ASTM tests (where applicable) on laboratory specimens. Reasonable variations in data can be expected. Data is not to be used for specification purposes. Product data is periodically updated to reflect product, raw material, process and/or testing changes. Please consult your Plibrico representative to make sure you have the most current data.