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Technical Data Sheet Redline Redgun 70A

Product # 52402

Available Internationally As:

Redline Redgun 70A

Product Description:

A high purity mullite based gun material that exhibits good thermal shock resistance and volume stability. It contains a non-wetting additive system that makes it resistant to molten aluminum. Applications include resurfacing aluminum furnace walls (upper and lower), and in some cases, complete wall thicknesses.

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	66.1	Alk	0.3	MgO	0.1
SiO ₂	29.3	TiO ₂	0.2	ZrO ₂	
CaO	1.8	P ₂ O ₅		Other	
Fe ₂ O ₃	1.2	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	4.8	0.69
1000°F / 540°C	5.7	0.82
1500°F / 815°C	7.0	1.01
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	0.0			700	4.8		
1000	540	-0.2			870	6.0		
1500	820	-0.3			1140	7.9		
2500	1370	0.6			1600	11.0		
3000	1650	1.3			2310	15.9		

Other Data:

Release Date: 1 Nov 1999

Heat Up Guide: Redline Schedule 3

ASTM Class: C 401 Class F
 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.