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Technical Data Sheet Redline Rapidgun 60A

Product # 53401

Available Internationally As:

Redline Rapidgun 60A

Product Description:

This high purity mullite based castable features a unique chemical bonding system. It provides fast setting times for quick turnaround and bake out. Excellent strengths, non-wetting properties, and thermal shock resistance. Great choice for molten aluminum contact applications: furnace linings and patches, transfer troughs, ladles, and degas boxes. Adheres extremely well to existing refractory surfaces. A small amount of pre-dampening is recommended.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 9 months

Service Limit: 2500 °F 1370 °C

Contact Limit: 1700 °F 927 °C

Bulk Density - In Service: 142 pcf 2275 kg/m³

Bulk Density - To Place: 142 pcf 2275 kg/m³

Minimum Time To Firing: 4 hr

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

N/A cc

Chemistry (calcined) %					
Al ₂ O ₃	63.5	Alk	0.1	MgO	
SiO ₂	27.1	TiO ₂	1.6	ZrO ₂	
CaO		P ₂ O ₅	4.8	Other	
Fe ₂ O ₃	0.8	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	12.1	1.74
2000°F / 1090°C	12.9	1.86

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
750	400	-0.1	6300	43.0				
1500	820	-0.2	7150	49.3	940	6.5		
2000	1090	-0.2			1280	8.8		

Other Data:

Release Date: 1 Oct 1999

Heat Up Guide: Redline Schedule 2

ASTM Class:

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.