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Technical Data Sheet Redline Redcast 60A

Product # 52202

Available Internationally As:

Redline Redcast 60A

Product Description:

This mullite based castable has excellent strengths, abrasion resistance, and non-wetting properties. It is an excellent choice for most molten aluminum contact applications including furnace linings, transfer troughs, ladles, and degas boxes.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 6 months

Service Limit: 3100 °F 1700 °C

Contact Limit: 1700 °F 927 °C

Bulk Density - In Service: 162 pcf 2595 kg/m³

Bulk Density - To Place: 162 pcf 2595 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	61.2	Alk	0.2	MgO	0.1
SiO ₂	32.8	TiO ₂	1.6	ZrO ₂	
CaO	1.7	P ₂ O ₅		Other	
Fe ₂ O ₃	0.9	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min	4.8	1.3	1.2
	max			
Casting	min	4.8	1.3	1.2
	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	11.2	1.61
1000°F / 540°C	11.5	1.66
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
250	120	0.0	8500	59.0	2520	17.4		
1000	540	-0.1			2220	15.3		
1500	820	-0.2	12000	82.8	3845	26.5		
2000	1090	-0.2			4385	30.2		
3000	1650	-0.1			4800	33.1		

Other Data:

Release Date: 1 May 2016

Heat Up Guide: Redline Schedule 1

ASTM Class: C 401 Class F
 Low Cement 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.