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Technical Data Sheet Redline Redlite G 28A

Product # 55402

Available Internationally As:

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Redline Redlite G 28A

Product Description:

This material is a high temperature insulating castable that exhibits excellent properties and gunning characteristics. It contains a non-wetting additive for molten aluminum contact applications. It can be used in melting and holding furnace subhearths and over-the-road ladle linings and covers. It also has application in petrochemical heaters and vessels, boiler and incinerator stack linings, and door liners.

Standard Packaging:	30 # /	<i>14 kg</i> Bag
Shelf Life:	12 months	S
Service Limit:	2800 °F	1540 °C
Contact Limit:	1700 °F	927 °C
Bulk Density - In Service:	85 pcf	1362 kg/m³
Bulk Density - To Place:	85 pcf	1362 kg/m³

Minimum Time To Firing: 24 hr

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

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

N/A	CC

Chemistry (calcined) %					
Al ₂ O ₃	55.3	Alk	1.6	MgO	0.2
SiO ₂	36.0	TiO ₂	0.6	ZrO ₂	
CaO	5.5	P_2O_5		Other	
Fe ₂ O ₃	0.7	SiC			

Coefficient of Thermal Expansion (reversable):				
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 / <i>260</i> °C	2.4	0.35		
1000°F / <i>540</i> °C	2.6	0.37		

3.0

3.8

0.43

0.55

1500°F / 815°C

2000°F / 1090°C

Temperature Linear		CCS per ASTM C133		Cold MOR per ASTM C133		Hot MOR per ASTM C583		
°F	°C	Change% per ASTM C113	psi	MPa	psi	MPa	psi	MPa
250	120	-0.1	1150	8.0	480	3.3		
1000	540	-0.2			360	2.5		
1500	820	-0.3			540	3.7		
2000	1090	-0.4			420	2.9		
2500	1370	1.8			720	5.0		
Other D	ata:							

Release Date: 1 Nov 2011

Heat Up Guide: Redline Schedule 3

ASTM Class:

Insulating 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.