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Technical Data Sheet Redline Redlite 20

Product # 55103

Available Internationally As:

Redline Redlite 20

Product Description:

This lightweight insulating castable was designed for service at low to moderate temperatures. Generally used as backup insulation, it can also be used for stacks and door linings in low temperature applications.

Standard Packaging: 25 # / 11 kg Bag

Shelf Life: 12 months

Service Limit: 2000 °F 1090 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 55 pcf 881 kg/m³

Bulk Density - To Place: 55 pcf 881 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	39.8	Alk	1.4	MgO	0.8
SiO ₂	31.2	TiO ₂	1.5	ZrO ₂	
CaO	19.9	P ₂ O ₅		Other	
Fe ₂ O ₃	5.4	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min	48.0	5.8	5.5
	max			
Casting	min	48.0	5.8	5.5
	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	1.2	0.17
1000°F / 540°C	1.3	0.19
1500°F / 815°C	1.7	0.24
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	-0.3	600	4.0	280	1.9		
1000	540	-0.8			225	1.6		
1500	820	-1.0			225	1.6		
2000	1090	-1.1			225	1.6		

Other Data:

Release Date: 1 Jun 1998

Heat Up Guide: Redline Schedule 3

ASTM Class: C 401 Class O
 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.