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Technical Data Sheet Redline Redcon 2800

Product # 51102

Available Internationally As:

Redline Redcon 2800

Product Description:

This super duty, conventionally bonded castable was designed for applications which require good strengths and abrasion resistance. Some common applications include upper walls and roofs of aluminum melting and holding furnaces, doors, and flues. It is also well suited for many boiler applications.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 12 months

Service Limit: 2800 °F 1540 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 134 pcf 2147 kg/m³

Bulk Density - To Place: 134 pcf 2147 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	50.3	Alk	0.5	MgO	0.1
SiO ₂	37.9	TiO ₂	1.5	ZrO ₂	
CaO	8.2	P ₂ O ₅		Other	
Fe ₂ O ₃	1.1	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min	12.0	3.2	3.0
	max			
Casting	min	12.0	3.2	3.0
	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	4.4	0.63
1000°F / 540°C	5.3	0.76
1500°F / 815°C	6.5	0.94
2000°F / 1090°C	8.3	1.20

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	-0.1	4600	32.0	1000	6.9		
1000	540	-0.2			590	4.1		
1500	820	-0.3	3300	22.8	520	3.6		
2000	1090	-0.3			520	3.6		
2500	1370	-1.0			1230	8.5		

Other Data:

Release Date: 1 Aug 2016

Heat Up Guide: Redline Schedule 3

ASTM Class: C 401 Class D
 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.