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Technical Data Sheet Redline Redcon 60

Product # 51101

Available Internationally As:

Redline Redcon 60

Product Description:

A conventionally bonded, high alumina, high strength castable designed for service conditions at elevated temperatures. Applications include heat treating and forging furnaces, burner blocks, and most heating equipment.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 9 months

Service Limit: 3100 °F 1700 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 155 pcf 2483 kg/m³

Bulk Density - To Place: 155 pcf 2483 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	63.1	Alk	0.1	MgO	0.1
SiO ₂	29.9	TiO ₂	1.6	ZrO ₂	
CaO	3.5	P ₂ O ₅		Other	
Fe ₂ O ₃	1.1	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min	10.0	2.6	2.5
	max			
Casting	min	10.0	2.6	2.5
	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	5.9	0.85
1000°F / 540°C	7.1	1.02
1500°F / 815°C	8.7	1.25
2000°F / 1090°C	11.3	1.63

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			1240	8.6		
1000	540	-0.2			900	6.2		
1500	820	-0.2			1050	7.2		
2000	1090	-0.2			650	4.5		
2500	1370	0.2			940	6.5		

Other Data:

Release Date: 1 Jul 1998

Heat Up Guide: Redline Schedule 3

ASTM Class:

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.