



Plibrico Company, LLC

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Technical Data Sheet Redline Redflow 60

Product # 52110

Available Internationally As:

Redline Redflow 60

Product Description:

This material is a high strength, super duty, low moisture castable designed to have good handling and flow characteristics. It can be pumped and will meet most severe service conditions. Applications include aluminum furnace roofs and upper sidewalls, forge and heat treating furnaces, kiln car tops, rotary kiln linings, and dryer furnaces.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 6 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	61.0	Alk	0.5	MgO	0.2
SiO ₂	34.9	TiO ₂	1.7	ZrO ₂	
CaO	0.7	P ₂ O ₅		Other	
Fe ₂ O ₃	1.0	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min			
	max			
Pumping	min	6.0	1.6	1.5
	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	11.0	1.58
1000°F / 540°C	10.4	1.50
1500°F / 815°C	11.0	1.58
2000°F / 1090°C	11.5	1.66

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	6700	46.0	1735	12.0		
1000	540	-0.3			1975	13.6		
1500	820	-0.5			2450	16.9		
2000	1090	-0.5			3800	26.2		
3000	1650	-0.4			4120	28.4		

Other Data:

Release Date: 1 Aug 1999

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.