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Technical Data Sheet Redline Redlite 110

Product # 55102

Available Internationally As:

Redline Redlite 110

Product Description:

This material is a high temperature semi-insulating castable which has excellent properties. It contains a non-wetting additive for molten aluminum contact applications. It is designed for applications that exceed the requirements of standard insulating properties. It can be used in melting and holding furnace doors and over-the-road ladle linings and covers.

Standard Packaging: 40 # / 18 kg Bag

Shelf Life: 6 months

Service Limit: 2800 °F 1540 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 112 pcf 1794 kg/m³

Bulk Density - To Place: 112 pcf 1794 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	50.1	Alk	0.7	MgO	0.3
SiO ₂	43.6	TiO ₂	1.5	ZrO ₂	
CaO	2.9	P ₂ O ₅		Other	
Fe ₂ O ₃	0.9	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min	8.9	1.7	1.6
	max			
Casting	min	8.9	1.7	1.6
	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		
1000°F / 540°C	4.7	0.68
1500°F / 815°C	4.2	0.60
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
220	100				1520	10.5		
1000	540	-0.1						
1500	820	-0.3			1440	9.9	1780	12.3

Other Data:

Release Date: 1 Jun 2006

Heat Up Guide: Redline Schedule 3

ASTM Class: C 401 Class S
 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.