



# Plibrico Company, LLC

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# Technical Data Sheet Redline Redlite 24

Product # 55104

Available Internationally As:

Redline Redlite 24

### Product Description:

A lightweight insulating castable designed for use in intermediate temperatures.

**Standard Packaging:** 30 # / 14 kg Bag

**Shelf Life:** 12 months

**Service Limit:** 2400 °F 1320 °C

**Contact Limit:** N/A °F N/A °C

**Bulk Density - In Service:** 77 pcf 1234 kg/m<sup>3</sup>

**Bulk Density - To Place:** 77 pcf 1234 kg/m<sup>3</sup>

**Minimum Time To Firing:** 24 hr

**Abrasion Loss after 1500°F / 815°C**  
 per ASTM C704

N/A cc

Chemistry (calcined) %					
Al <sub>2</sub> O <sub>3</sub>	42.9	Alk	1.7	MgO	0.6
SiO <sub>2</sub>	38.7	TiO <sub>2</sub>	1.5	ZrO <sub>2</sub>	
CaO	9.4	P <sub>2</sub> O <sub>5</sub>		Other	
Fe <sub>2</sub> O <sub>3</sub>	4.5	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min	28.0	4.0	3.8
	max			
Casting	min	28.0	4.0	3.8
	max			
Pumping	min			
	max			

**Coefficient of Thermal Expansion (reversible):**

x 10<sup>-6</sup> in/in/°F / x 10<sup>-6</sup> mm/mm/°C

Thermal Conductivity	btu*in/hr*ft <sup>2</sup> *°F	W/m°C
500°F / 260°C	2.2	0.32
1000°F / 540°C	2.4	0.35
1500°F / 815°C	2.7	0.39
2000°F / 1090°C	3.5	0.50

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	-0.2	675	5.0	325	2.2		
1000	540	-0.4						
1500	820	-0.5			270	1.9		
2000	1090	-0.7			360	2.5		
2400	1320	-1.2			710	4.9		

Other Data:

Release Date: 1 Nov 2011

Heat Up Guide: Redline Schedule 3

ASTM Class:

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.