



# Plibrico Company, LLC

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# Technical Data Sheet Redline Redgun 50

Product # 52303

Available Internationally As:

Redline Redgun 50

### Product Description:

A super duty gun mix that exhibits excellent hot strength combined with good resistance to abrasion and mechanical abuse. It can be used in non-metal contact areas of aluminum melting and holding equipment, high temperature stack linings, cement kiln linings and firing hoods, and reheat furnaces.

**Standard Packaging:** 55 # / 25 kg Bag

**Shelf Life:** 9 months

**Service Limit:** 3000 °F 1650 °C

**Contact Limit:** N/A °F N/A °C

**Bulk Density - In Service:** 130 pcf 2083 kg/m<sup>3</sup>

**Bulk Density - To Place:** 130 pcf 2083 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>	50.3	Alk	0.4	MgO	0.2
SiO <sub>2</sub>	40.8	TiO <sub>2</sub>	1.3	ZrO <sub>2</sub>	
CaO	2.7	P <sub>2</sub> O <sub>5</sub>		Other	
Fe <sub>2</sub> O <sub>3</sub>	1.2	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min			
	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		
1000°F / 540°C		
1500°F / 815°C		
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
250	120	-0.1	4300	30.0	730	5.0		
1000	540							
1500	820	-0.3			665	4.6		
2000	1090	-0.3			500	3.4		
2500	1370	1.4			870	6.0		

Other Data:

Release Date: 1 Aug 2000

Heat Up Guide: Redline Schedule 3

ASTM Class: C 401 Class E

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.