



# Plibrico Company, LLC

1935 Techny Road - Unit 16  
 Northbrook, IL 60062  
 (312) 337-9000  
 www.plibrico.com

# Technical Data Sheet Redline Redlite G 24A

Product # 55401

Available Internationally As:

Redline Redlite G 24A

### Product Description:

This material is a high temperature insulating castable that exhibits excellent properties and gunning characteristics. It contains a non-wetting additive for molten aluminum contact applications. It can be used in melting and holding furnace doors, furnace subhearth and over-the-road ladle linings and covers. It also has application in petrochemical heaters and vessels, boiler and incinerator stack linings and door liners.

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

**Shelf Life:** 12 months

**Service Limit:** 2400 °F 1320 °C

**Contact Limit:** 1700 °F 927 °C

**Bulk Density - In Service:** 80 pcf 1282 kg/m<sup>3</sup>

**Bulk Density - To Place:** 80 pcf 1282 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			
	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	2.3	0.33
1000°F / 540°C	2.5	0.36
1500°F / 815°C	2.8	0.40
2000°F / 1090°C	3.6	0.52

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	1050	7.0	460	3.2		
1000	540	-0.2			340	2.3		
1500	820	-0.3			530	3.7		
2000	1090	-0.4			410	2.8		
2500	1370	1.8			720	5.0		

Other Data:

Release Date: 1 Jul 2016

Heat Up Guide: Redline Schedule 3

ASTM Class: C 401 Class Q  
 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.