



# Plibrico Company, LLC

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

# Technical Data Sheet Redline Red Hot G 60/5

Product # 52304

Available Internationally As:

Redline Red Hot G 60/5

### Product Description:

A mullite based gun designed for resurfacing existing refractory surfaces. It contains a silicon carbide addition to help resist corundum build up. It is generally applied in hot conditions, but can also be used cold. This material contains a non-wetting system and can be used above and below metal line in aluminum processing furnaces.

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

**Shelf Life:** 9 months

**Service Limit:** 3100 °F 1700 °C

**Contact Limit:** 1700 °F 927 °C

**Bulk Density - In Service:** 136 pcf 2179 kg/m<sup>3</sup>

**Bulk Density - To Place:** 136 pcf 2179 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>	57.8	Alk	1.0	MgO	
SiO <sub>2</sub>	31.7	TiO <sub>2</sub>	1.6	ZrO <sub>2</sub>	
CaO	1.5	P <sub>2</sub> O <sub>5</sub>		Other	
Fe <sub>2</sub> O <sub>3</sub>	1.1	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	4.7	0.68
1000°F / 540°C	5.5	0.79
1500°F / 815°C	6.7	0.96
2000°F / 1090°C	8.6	1.24

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			550	3.8		
1000	540	-0.3			475	3.3		
1500	820	-0.3			625	4.3		
2000	1090	-0.2			710	4.9		
3000	1650	0.2			1500	10.3		

Other Data:

Release Date: 1 Jun 1988

Heat Up Guide: Redline Schedule 3

ASTM Class: C 401 Class D  
 Regular 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.