



# Plibrico Company, LLC

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# Technical Data Sheet Redline Redcast 60A/10

Product # 52203

Available Internationally As:

Redline Redcast 60A/10

### Product Description:

A mullite based low cement castable that contains a silicon carbide addition for increased abrasion and thermal shock resistance. It was specifically designed for rotary dross furnaces that are run intermittently. It can also be used in areas that are subjected to high degrees of impact and thermal shock from molten aluminum. This material can also be utilized in molten copper transfer troughs.

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

**Shelf Life:** 6 months

**Service Limit:** 3000 °F 1650 °C

**Contact Limit:** 1700 °F 927 °C

**Bulk Density - In Service:** 164 pcf 2627 kg/m<sup>3</sup>

**Bulk Density - To Place:** 164 pcf 2627 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>	60.4	Alk		MgO	0.1
SiO <sub>2</sub>	26.5	TiO <sub>2</sub>	1.1	ZrO <sub>2</sub>	
CaO	1.5	P <sub>2</sub> O <sub>5</sub>		Other	
Fe <sub>2</sub> O <sub>3</sub>	0.7	SiC	9.7		

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min	4.8	1.3	1.2
	max			
Casting	min	4.8	1.3	1.2
	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	21.7	3.12
1000°F / 540°C	20.6	2.97
1500°F / 815°C	18.9	2.72
2000°F / 1090°C	16.7	2.40

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	7700	53.0	1900	13.1		
1000	540	-0.1			1795	12.4		
1500	820	-0.2			2055	14.2		
2000	1090	-0.2			2140	14.8		
3000	1650	-0.1			2610	18.0		

Other Data:

Release Date: 1 Jun 2014

Heat Up Guide: Redline Schedule 1

ASTM Class:

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.