



# Plibrico Company, LLC

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# Technical Data Sheet Redline Redflow 65A

Product # 52212

Available Internationally As:

Redline Redflow 65A

### Product Description:

This mullite based castable exhibits excellent flow properties and is extremely user friendly. Designed for applications where molten aluminum processing operations require exceptional strength and abrasion resistance. Applications include problem wear areas such as sills and ramps in aluminum melting and holding furnaces, troughs, and degas boxes. The material provides excellent non-wetting properties and resistance to metal penetration.

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

**Shelf Life:** 6 months

**Service Limit:** 3100 °F 1700 °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>	65.4	Alk	0.2	MgO	0.1
SiO <sub>2</sub>	30.2	TiO <sub>2</sub>	1.2	ZrO <sub>2</sub>	
CaO	1.8	P <sub>2</sub> O <sub>5</sub>		Other	
Fe <sub>2</sub> O <sub>3</sub>	0.9	SiC			

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	11.2	1.61
1000°F / 540°C	11.5	1.66
1500°F / 815°C	12.1	1.74
2000°F / 1090°C	12.9	1.86

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	0.0	9000	62.0	2390	16.5		
1000	540	-0.1			3260	22.5		
1500	820	-0.2	14400	99.3	4370	30.1		
2000	1090	-0.2			5495	37.9		
3000	1650	-0.1			5780	39.9		

Other Data:

Release Date: 1 Aug 2016

Heat Up Guide: Redline Schedule 1

ASTM Class: C 401 Class F  
 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.