

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

Technical Data Sheet Redline Redcast 70A/7

Product # 52205

Available Internationally As:

Redline Redcast 70A/7

Product Description:

This high purity mullite castable shows outstanding strength, abrasion and thermal shock resistance, and has a silicon carbide addition to enhance resistance to alkali attack. It is designed for severe wear areas and areas which are subject to oxide growth within aluminum melting equipment. Used where high mag containing alloys are a problem as well as in transfer troughing.

55 # /	25 kg Bag		
6 months			
3100 °F	1700 °C		
1700 °F	927 °C		
167 pcf	2675 kg/m³		
167 _{pcf}	2675 kg/m³		
	3100 °F 1700 °F 167 pcf		

Minimum Time To Firing: 24 hr

Water Range Per Standard Package		%	Quarts	Liters
Vib	min	4.8	1.3	1.2
Casting	max			
Casting	min	4.8	1.3	1.2
	max			
Pumping	min			
	max			

Abrasion Loss after 1500°F / 815°C
per ASTM C704

N/A cc

Chemistry (calcined) %						
Al ₂ O ₃	64.4	Alk	0.2	MgO	0.1	
SiO ₂	22.9	TiO ₂	1.4	ZrO ₂		
CaO	1.7	P_2O_5		Other		
Fe ₂ O ₃	0.9	SiC				

Coefficient of Thermal Expansion (reversable):					
x 10 ⁻⁶ in/in/°F / x 10 ⁻⁶ mm/mm/°C					
Thermal Conductivity	btu*in/hr*ft²*°F	W/m°C			
500°E / 260°C	12.1	1.74			

500°F / <i>260</i> °C	12.1	1.74
1000°F / <i>540</i> °C	12.4	1.79
1500°F / <i>815</i> °C	12.9	1.86
2000°F / <i>1090</i> °C	13.8	1.99

Temperature Linear		CCS per ASTM C133		Cold MOR per ASTM C133		Hot MOR per ASTM C583		
°F	°C	Change% per ASTM C113	psi	MPa	psi	MPa	psi	MPa
250	120	0.0	8800	61.0	2855	19.7		
1000	540	-0.1			2500	17.2		
1500	820	-0.1	13500	93.1	3990	27.5		
2000	1090	-0.2			4400	30.3		
3000	1650	-0.1			5110	35.2		
Other Data:								

Release Date: 1 Jun 2005

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.

1935 Techny Road –Unit 16, Northbrook, IL 60062