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Technical Data Sheet Pligun Fast Track 30

Product # 13607

Available Internationally As: Plico Gun Mix Fast Track 30

Product Description:

A super duty, high strength, refractory gun mix which may be dried out / heated on an accelerated schedule and minimum cure time. Note: Cure times less than 8 hrs will result in lower strengths (see other data)

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 9 months

Service Limit: 3000 °F 1650 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 125 pcf 2003 kg/m³

Bulk Density - To Place: 125 pcf 2003 kg/m³

Minimum Time To Firing: 4 hr

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

N/A cc

Chemistry (calcined) %					
Al ₂ O ₃	46.9	Alk	0.6	MgO	0.1
SiO ₂	46.6	TiO ₂	1.8	ZrO ₂	
CaO	3.1	P ₂ O ₅		Other	
Fe ₂ O ₃	0.9	SiC			

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

Coefficient of Thermal Expansion (reversible):

3.0 x 10⁻⁶ in/in/°F / 5.4 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	6.7	1.0
1000°F / 540°C	6.8	1.0
1500°F / 815°C	6.9	1.0
2000°F / 1090°C	7.1	1.0

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
230	110	-0.1	4200	29.0	950	6.6		
1500	820	-0.3	3300	23.0	700	4.8	800	5.5
2000	1090	-0.4			800	5.5	900	6.2
2500	1370	1.3			1300	9.0	200	1.4
2900	1590	-0.8			2000	13.8		

Other Data:

Release Date: 1 Aug 2019

Heat Up Guide: Schedule FT

ASTM Class: C 401 Class E 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.