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Technical Data Sheet Pligun Fast Track SiC 80 TM

Product # 3306

Available Internationally As: Plico Gun Mix Fast Track SiC 80 TM

Product Description:

Pligun Fast Track SiC 80 TM is an 80% silicon carbide gun mix designed for micro applications with an accelerated bake-out schedule. This product can be applied via hand packing or troweling for small applications and tight areas like behind boiler tubes and studs. Product advantages include good mechanical strength, high thermal conductivity, and resistance to acid slag corrosion.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 9 months

Service Limit: 2700 °F 1480 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 138 pcf 2211 kg/m³

Bulk Density - To Place: 138 pcf 2211 kg/m³

Minimum Time To Firing: 24 hr

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

N/A cc

Chemistry (calcined) %					
Al ₂ O ₃	11.3	Alk	0.1	MgO	0.1
SiO ₂	5.4	TiO ₂	0.2	ZrO ₂	
CaO	4.7	P ₂ O ₅		Other	
Fe ₂ O ₃	0.3	SiC	78.1		

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

Coefficient of Thermal Expansion (reversible):

3.3 x 10⁻⁶ in/in/°F / 5.9 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	32.5	4.68
1000°F / 540°C	28.2	4.06
1500°F / 815°C	31.3	4.51
2000°F / 1090°C	41.1	5.92

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	4000	28.0	1100	7.6		
1000	540	-0.3			850	5.9		
1500	820	-0.4	3500	24.1	900	6.2	1200	8.3
2000	1090	-0.3			1200	8.3	1000	6.9
2500	1370	-0.1			1900	13.1		

Other Data:

Release Date: 1 Aug 2019

Heat Up Guide: Schedule FT

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.