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Technical Data Sheet Pli-Shot HyMOR SiC 60 KK

Product # 15264

Available Internationally As:

Plico Shotcrete LC SiC 60 KK

Product Description:

A 60% SiC, high strength, low cement, shotcrete.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 6 months

Service Limit: 2800 °F 1540 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 154 pcf 2467 kg/m³

Bulk Density - To Place: 154 pcf 2467 kg/m³

Minimum Time To Firing: 16 hr

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

9 cc

Chemistry (calcined) %					
Al ₂ O ₃	22.3	Alk	0.2	MgO	0.1
SiO ₂	13.1	TiO ₂	0.5	ZrO ₂	
CaO	1.9	P ₂ O ₅		Other	
Fe ₂ O ₃	0.4	SiC	61.3		

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min			
	max			
Pumping	min	5.8	1.5	1.5
	max	6.8	1.8	1.7

Coefficient of Thermal Expansion (reversible):

3.1 x 10⁻⁶ in/in/°F / 5.6 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	39.9	5.7
1000°F / 540°C	37.8	5.4
1500°F / 815°C	36.7	5.3
2000°F / 1090°C	40.1	5.8

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	0.0	7500	52.0	1700	11.7		
1500	820	-0.2	8000	55.0	2000	13.8	2800	19.3
2000	1090	-0.3			2900	20.0	3500	24.1
2500	1370	0.4			3800	26.2	500	3.4

Other Data:

Release Date: 1 Aug 2019

Heat Up Guide: Schedule C or C-Linear

ASTM Class: C 401 Class D

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.