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Technical Data Sheet PliFlow HyMOR SiC 70 KK

Product # 14805

Available Internationally As:

PlicoFlow LC SiC 70 KK

Product Description:

A 70% silicon carbide, self leveling low cement castable.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 6 months

Service Limit: 2900 °F 1590 °C

Contact Limit: °F °C

Bulk Density - In Service: 165 pcf 2643 kg/m³

Bulk Density - To Place: 165 pcf 2643 kg/m³

Minimum Time To Firing: 16 hr

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

10 cc

Chemistry (calcined) %					
Al ₂ O ₃	18.3	Alk	0.1	MgO	
SiO ₂	8.5	TiO ₂	0.1	ZrO ₂	
CaO	1.5	P ₂ O ₅		Other	
Fe ₂ O ₃	0.3	SiC	70.8		

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min	5.6	1.5	1.4
	max	6.4	1.7	1.6
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	50.9	7.33
1000°F / 540°C	50.4	7.26
1500°F / 815°C	50.3	7.24
2000°F / 1090°C	50.4	7.26

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	7000	48.0	1000	6.9		
1500	820	-0.2	8500	59.0	1600	11.0	2500	17.2
2000	1090						3000	20.7

Other Data:

Release Date: 5 May 2020

Heat Up Guide: Schedule C or C-Linear

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.