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Technical Data Sheet Plicast Super HyMOR 65 KK

Product # 14607

Available Internationally As: Plico Castable ULC 65 KK

Product Description:

Plicast Super HyMOR 65 KK is a mullite based ultra-low cement castable. Lower lime content in the refractory matrix enhances characteristics at higher temperatures. These characteristics include improved hot strength at elevated temperatures greater than 2000°F, creep resistance, and improved alkali attack and slag attack resistance. Plicast Super HyMOR 65 KK can be placed by casting or pumping.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 6 months

Service Limit: 3100 °F 1700 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 155 pcf 2483 kg/m³

Bulk Density - To Place: 155 pcf 2483 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	64.3	Alk	0.2	MgO	0.1
SiO ₂	32.3	TiO ₂	1.5	ZrO ₂	
CaO	0.6	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	5.6	1.5	1.4
	max	6.4	1.7	1.6
Pumping	min	6.0	1.6	1.5
	max	7.2	1.9	1.8

Coefficient of Thermal Expansion (reversible):

3.7 x 10⁻⁶ in/in/°F / 6.7 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	10.7	1.5
1000°F / 540°C	11.3	1.6
1500°F / 815°C	12.0	1.7
2000°F / 1090°C	12.6	1.8

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	7000	48.0	1600	11.0		
1500	820	-0.2	7000	48.0	1500	10.3	3500	24.1
2000	1090	-0.4			2800	19.3	4000	27.6
2500	1370	1.0			2400	16.6	1250	8.6
3000	1650	0.6			3000	20.7		

Other Data:

Release Date: 1 Aug 2019

Heat Up Guide: Schedule C or C-Linear

ASTM Class: C 401 Class F Ultra 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.