



Plibrico Company, LLC

1935 Techny Road - Unit 16
 Northbrook, IL 60062
 (312) 337-9000
 www.plibrico.com

Technical Data Sheet Plicast HyMOR 65C KK

Product # 14284

Available Internationally As: Plico Castable LC 65C KK

Product Description:

A coarse grain with excellent resistance to thermal cycling, impact and fracture.

Standard Packaging: 1250 # / 568 kg Super Sack

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

7 cc

Chemistry (calcined) %					
Al ₂ O ₃	66.7	Alk	0.3	MgO	0.1
SiO ₂	29.1	TiO ₂	1.5	ZrO ₂	
CaO	1.6	P ₂ O ₅		Other	
Fe ₂ O ₃	0.8	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min	5.8	34.9	33.0
	max	6.4	38.5	36.4
Casting	min	6.4	38.5	36.4
	max	7.2	43.3	40.9
Pumping	min			
	max			

Coefficient of Thermal Expansion (reversible):	
3.9	x 10 ⁻⁶ in/in/°F / 7.0 x 10 ⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	11.2	1.6
1000°F / 540°C	11.8	1.7
1500°F / 815°C	12.5	1.8
2000°F / 1090°C	13.1	1.9

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	1750	12.1		
1500	820	-0.2	8500	59.0	2300	15.9	3250	22.4
1800	980	-0.3			2500	17.2	3500	24.1
2000	1090						2800	19.3
2500	1370						1000	6.9

Other Data: Course aggregate mixing instructions if required: Per 50 lb package: mix one 44 lb bag with 6 lb of aggregate, per 500 lb package, mix on 440 lb bag with one 60 lb bag of aggregate. Any package larger than 500 lb will have the coarse aggregate inside of the bulk bag.

Release Date: 1 Aug 2019

Heat Up Guide: Schedule C or C-Linear

ASTM Class: C 401 Class F
 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.