



Plibrico Company, LLC

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

Technical Data Sheet Plicast Super HyMOR 95V KK

Product # 14605

Available Internationally As:

Plico Castable ULC 95V KK

Product Description:

A high alumina, ultra low cement castable. Vibration cast only.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 6 months

Service Limit: 3200 °F 1760 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 190 pcf 3044 kg/m³

Bulk Density - To Place: 190 pcf 3044 kg/m³

Minimum Time To Firing: 16 hr

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

8 cc

Chemistry (calcined) %					
Al ₂ O ₃	93.8	Alk	0.4	MgO	
SiO ₂	5.4	TiO ₂		ZrO ₂	
CaO	0.3	P ₂ O ₅		Other	
Fe ₂ O ₃		SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min	3.7	1.0	0.9
	max	4.7	1.2	1.2
Casting	min			
	max			
Pumping	min			
	max			

Coefficient of Thermal Expansion (reversible):

5.4 x 10⁻⁶ in/in/°F / 9.7 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	28.0	4.0
1000°F / 540°C	23.3	3.4
1500°F / 815°C	20.5	3.0
2000°F / 1090°C	20.8	3.0

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	6500	45.0	1700	11.7		
1500	820	0.1	9000	62.0	2200	15.2	3000	20.7
2000	1090	-0.5			3000	20.7	3800	26.2
2500	1370	0.0			4000	27.6	1700	11.7
3000	1650	-0.4			5000	34.5		

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.