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Technical Data Sheet

Plicast LWI 24 P

Product # 16052

Available Internationally As:

Plico Castable LW 24-P

Product Description:

A moderate temperature insulating castable designed for pumping.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 6 months

Service Limit: 2450 °F 1340 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 83 pcf 1330 kg/m³

Bulk Density - To Place: 83 pcf 1330 kg/m³

Minimum Time To Firing: 24 hr

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

N/A cc

Chemistry (calcined) %					
Al ₂ O ₃	43.5	Alk	1.1	MgO	0.1
SiO ₂	42.4	TiO ₂	1.4	ZrO ₂	
CaO	9.1	P ₂ O ₅		Other	
Fe ₂ O ₃	2.4	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min			
	max			
Pumping	min	22.7	6.0	5.7
	max	28.4	7.5	7.1

Coefficient of Thermal Expansion (reversible):

2.8 x 10⁻⁶ in/in/°F / 5.0 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	2.6	0.4
1000°F / 540°C	2.7	0.4
1500°F / 815°C	2.9	0.4
2000°F / 1090°C	3.3	0.5

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	-0.1	1100	8.0	400	2.8		
1000	540	-0.2			200	1.4	160	1.1
1500	820	-0.3	700	4.8	250	1.7	175	1.2
2000	1090	-0.7			300	2.1	150	1.0
2450	1340	-1.2			450	3.1		

Other Data:

Release Date: 1 Aug 2019

Heat Up Guide: Schedule B

ASTM Class: C 401 Class Q Insulating 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.