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Technical Data Sheet Plicast LWI 24 HS

Product # 3263

Available Internationally As:

Plico Castable LW 24 HS

Product Description:

A high strength moderate temperature insulating castable.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 6 months

Service Limit: 2400 °F 1320 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 80 pcf 1282 kg/m³

Bulk Density - To Place: 80 pcf 1282 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	48.3	Alk	1.8	MgO	0.2
SiO ₂	37.0	TiO ₂	1.0	ZrO ₂	
CaO	11.2	P ₂ O ₅		Other	
Fe ₂ O ₃	0.5	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min	27.0	7.1	6.8
	max	30.0	7.9	7.5
Pumping	min	32.0	8.4	8.0
	max	34.0	9.0	8.5

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	0.37
1000°F / 540°C	2.7	0.39
1500°F / 815°C	2.9	0.42
2000°F / 1090°C	3.3	0.48

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	2500	17.0	600	4.1		
1000	540							
1500	820	-0.6	1850	12.8	400	2.8		
2000	1090	-0.9			400	2.8		

Other Data:

Release Date: 1 Apr 2020

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.