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Technical Data Sheet

Plicast C/G LWI

Product # 18012

Available Internationally As:

Plico Castable C/G LW

Product Description:

An economical insulating castable suitable for both casting and gunning application. Cast data - see "other data" for gunned density and strength.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 12 months

Service Limit: 2400 °F 1320 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 65 pcf 1041 kg/m³

Bulk Density - To Place: 65 pcf 1041 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	41.1	Alk	1.6	MgO	0.3
SiO ₂	43.4	TiO ₂	1.8	ZrO ₂	
CaO	9.1	P ₂ O ₅		Other	
Fe ₂ O ₃	2.5	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min	37.4	9.9	9.4
	max	41.6	11.0	10.4
Pumping	min			
	max			

Coefficient of Thermal Expansion (reversible):

2.4 x 10⁻⁶ in/in/°F / 4.3 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	2.0	0.3
1000°F / 540°C	2.1	0.3
1500°F / 815°C	2.3	0.3
2000°F / 1090°C	2.6	0.4

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	575	4.0	250	1.7		
1500	820	-0.5	500	3.0	170	1.2		
2000	1090	-1.0			125	0.9		
2400	1320	-1.6			175	1.2		

Other Data: Gunned - density to place & in service 68 pcf,

230F - CCS 700psi CMOR 300psi
 1500F - CCS 550psi CMOR 200psi

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.