



Plibrico Company, LLC

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Technical Data Sheet Plicast C/G LWI 24

Product # 3339

Available Internationally As:

Plico Castable C/G LW 24

Product Description:

An economical insulating castable suitable for both casting and gunning application.

Gunned information reflected below, Cast specific information can be found in Other Data Section.

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: 85 pcf 1362 kg/m³

Bulk Density - To Place: 85 pcf 1362 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			

Coefficient of Thermal Expansion (reversible):

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

Thermal Conductivity

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	2.8	0.40
1000°F / 540°C	2.9	0.42
1500°F / 815°C	3.1	0.45
2000°F / 1090°C	3.6	0.52

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			

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	700	5.0	300	2.1		
1500	820	-0.5	550	4.0	200	1.4		
2000	1090	-1.0			125	0.9		
2400	1320	-1.6			175	1.2		

Other Data: Cast Data: Density service/place: 65 pcf, Thermal Conductivity: 500F: 2.0, 1000F: 2.1, 1500F: 2.3, 2000F: 2.6
230F: CCS 575psi Cold MOR 250psi, 1500F - CCS 500psi Cold MOR 170psi

Release/Revision Date: 6 Jan 2025

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.

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