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Technical Data Sheet

Pligun HyMOR 7

Product # 13069

Available Internationally As:

Plico Gun Mix LC 7

Product Description:

A 70% alumina, high hot strength, abrasion resistant, low cement gun mix. Note: optimum gunned properties requires the use of a water booster pump (min. water pressure at the nozzle - 125psi.) and a 16 hole water ring.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 9 months

Service Limit: 3100 °F 1700 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 152 pcf 2435 kg/m³

Bulk Density - To Place: 152 pcf 2435 kg/m³

Minimum Time To Firing: 16 hr

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

9 cc

Chemistry (calcined) %					
Al ₂ O ₃	68.2	Alk	0.2	MgO	0.1
SiO ₂	26.3	TiO ₂	1.8	ZrO ₂	
CaO	1.9	P ₂ O ₅		Other	
Fe ₂ O ₃	1.3	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min			
	max			
Pumping	min			
	max			

Coefficient of Thermal Expansion (reversible):

3.7 x 10⁻⁶ in/in/°F / 6.7 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	8.5	1.2
1000°F / 540°C	7.3	1.1
1500°F / 815°C	8.1	1.2
2000°F / 1090°C	8.4	1.2

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	8500	59.0	140	1.0		
1500	820	-0.3	7500	52.0	1300	9.0	1600	11.0
2000	1090	-0.4			1200	8.3	1500	10.3
2500	1370	0.8			1800	12.4		

Other Data:

Release Date: 1 Aug 2019

Heat Up Guide: Schedule C or C-Linear

ASTM Class: C 401 Class F 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.