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Technical Data Sheet

Pligun HyMOR 8 A

Product # 13070

Available Internationally As:

Plico Gun Mix LC 8 A

Product Description:

Pligun HYMOR 8 A is a high performance 80% alumina, low cement gun mix. Product advantages include excellent abrasion resistance, high cold crushing, very good hot MOR up through and beyond 2000°F, and good alkali / slag resistance. For optimum gunned properties this product requires high gunning water pressure (>125psi) and a 16-hole nozzle water ring to assure optimum mix hydration.

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: 158 pcf 2531 kg/m³

Bulk Density - To Place: 158 pcf 2531 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	81.7	Alk	0.2	MgO	0.1
SiO ₂	12.7	TiO ₂	1.6	ZrO ₂	
CaO	2.0	P ₂ O ₅		Other	
Fe ₂ O ₃	1.5	SiC			

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

Coefficient of Thermal Expansion (reversible):

3.9 x 10⁻⁶ in/in/°F / 7.0 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	11.1	1.6
1000°F / 540°C	9.6	1.4
1500°F / 815°C	9.3	1.3
2000°F / 1090°C	10.2	1.5

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	8500	59.0	1700	11.7		
1500	820	-0.3	8000	55.0	1500	10.3	1800	12.4
1800	980	-0.5			1600	11.0	1700	11.7
2000	1090	-0.4			1100	7.6	1600	11.0
2500	1370	0.5			1300	9.0	250	1.7

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.