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Technical Data Sheet Exo-Set UNO 30 MG

Product # 3338

Available Internationally As:

Exo-Set UNO 30 MG

Product Description:

Exo-Set UNO 30 M G is a mullite based, chemical bonded gun mix that utilizes a dry phosphate bonding system which only requires water for activation. Exo-Set UNO 30 M G should be gunned without pre-dampening.

Product advantages include good adherence and re-bond strength on worn refractory surfaces, rapid setting, and resistance to aluminum attack and penetration.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 6 months

Service Limit: 3000 °F 1650 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 144 pcf 2307 kg/m³

Bulk Density - To Place: 144 pcf 2307 kg/m³

Minimum Time To Firing: 0 hr

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

12 cc

Chemistry (calcined) %					
Al ₂ O ₃	63.0	Alk		MgO	
SiO ₂	29.0	TiO ₂	1.6	ZrO ₂	
CaO		P ₂ O ₅	4.0	Other	1.5
Fe ₂ O ₃	0.9	SiC			

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

Coefficient of Thermal Expansion (reversible):

3.6 x 10⁻⁶ in/in/°F / 6.5 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	8.0	1.15
1000°F / 540°C	8.2	1.18
1500°F / 815°C	9.0	1.30
2000°F / 1090°C	10.3	1.48

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	0.0	800	6.0	550	3.8		
1000	540	-0.2			800	5.5		
1500	820	-0.5	2000	13.8	1000	6.9	1045	7.2
2000	1090	-0.7			1400	9.7	1045	7.2
2500	1370	0.3			2500	17.2	300	2.1

Other Data:

Release/Revision Date: 1 Dec 2025

Heat Up Guide: Schedule D

ASTM Class:

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.