



Plibrico Company, LLC

1935 Techny Road - Unit 16
 Northbrook, IL 60062
 (312) 337-9000
 www.plibrico.com

Technical Data Sheet

Exo-Set Uno M

Product # 17434

Available Internationally As:

Exo-set Uno M

Product Description:

An one component, rapid hardening, chemically bonded, mullite based refractory castable. Exhibits excellent bonding adherence to old refractory - hot or cold. Non wetting to aluminum.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 6 months

Service Limit: 2500 °F 1370 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 146 pcf 2339 kg/m³

Bulk Density - To Place: 146 pcf 2339 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	63.3	Alk		MgO	
SiO ₂	22.8	TiO ₂		ZrO ₂	
CaO		P ₂ O ₅	4.3	Other	9.5
Fe ₂ O ₃		SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min	6.8	1.8	1.7
	max	8.0	2.1	2.0
Pumping	min	7.6	2.0	1.9
	max	8.8	2.3	2.2

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	8.1	1.2
1000°F / 540°C	8.3	1.2
1500°F / 815°C	9.1	1.3
2000°F / 1090°C	10.5	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	4400	30.0	1100	7.6		
1500	820	-0.2	3200	22.0	1000	6.9	1500	10.3
1800	980	-0.3			1050	7.2	1100	7.6
2000	1090	-0.5			1600	11.0	250	1.7
2500	1370	-1.2			2100	14.5		

Other Data:

Release Date: 1 Aug 2019

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.