



# Plibrico Company, LLC

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

# Technical Data Sheet Exo-Set Uno B G

Product # 17438

Available Internationally As:

Exo-set Uno B G

### Product Description:

An one component, rapid hardening, chemically bonded, bauxite based refractory castable. Exhibits excellent bonding adherence to old refractory. May be gunned hot or cold. Do not predampen. 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:** 150 pcf 2403 kg/m<sup>3</sup>

**Bulk Density - To Place:** 150 pcf 2403 kg/m<sup>3</sup>

**Minimum Time To Firing:** 0 hr

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

12 cc

Chemistry (calcined) %					
Al <sub>2</sub> O <sub>3</sub>	74.7	Alk		MgO	
SiO <sub>2</sub>	9.5	TiO <sub>2</sub>		ZrO <sub>2</sub>	
CaO		P <sub>2</sub> O <sub>5</sub>	4.9	Other	11.4
Fe <sub>2</sub> O <sub>3</sub>		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<sup>-6</sup> in/in/°F / 6.5 x 10<sup>-6</sup> mm/mm/°C

Thermal Conductivity	btu*in/hr*ft <sup>2</sup> *°F	W/m°C
500°F / 260°C	9.5	1.4
1000°F / 540°C	9.7	1.4
1500°F / 815°C	10.5	1.5
2000°F / 1090°C	111.8	16.1

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	3000	21.0	900	6.2		
1000	540	-0.2			800	5.5	1100	7.6
1500	820	-0.3	2000	13.8	1050	7.2	1200	8.3
1800	980	-0.5			1350	9.3	800	5.5

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.