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Technical Data Sheet

Plicast ADMOR 6

Product # 16551

Available Internationally As:

Plico Castable AdMOR 6

Product Description:

Plicast® AdMOR 6 KK is a 65% alumina ultra-low cement castable. Thermal cycling characteristics include higher percentage of strength, MOR & MOE retained after cycling, excellent crack initiation and propagation resistance, and moderate thermal expansion. Additional thermal cycling characteristics are superior hot loading resistance, low TEUL, very low Creep at 2600°F, and alkali vapor resistance.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 6 months

Service Limit: 3100 °F 1700 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 160 pcf 2563 kg/m³

Bulk Density - To Place: 160 pcf 2563 kg/m³

Minimum Time To Firing: 16 hr

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

N/A cc

Chemistry (calcined) %					
Al ₂ O ₃	62.5	Alk	0.3	MgO	0.1
SiO ₂	34.9	TiO ₂	0.4	ZrO ₂	
CaO	0.6	P ₂ O ₅		Other	
Fe ₂ O ₃	0.7	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min	6.0	1.6	1.5
	max	6.6	1.7	1.7
Pumping	min			
	max			

Coefficient of Thermal Expansion (reversible):

3.2 x 10⁻⁶ in/in/°F / 5.8 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	10.8	1.6
1000°F / 540°C	11.4	1.6
1500°F / 815°C	12.1	1.7
2000°F / 1090°C	12.7	1.8

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	3000	21.0	800	5.5		
2000	1090	-0.3			1250	8.6	2800	19.3
2300	1260				1275	8.8	1000	6.9
2500	1370				1400	9.7	1300	9.0
2900	1590	0.5			1750	12.1		

Other Data: Recommended Minimum Firing Temperature 1800°F, ASTM C832 50 hr Creep @ 2600F w 25psi load: -0.15%

Release Date: 1 Aug 2019

Heat Up Guide: Schedule C or C-Linear

ASTM Class: C 401 Class F Ultra 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.