



Plibrico Company, LLC

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

Technical Data Sheet Plibrico Super F AB

Product # 10008

Available Internationally As:

Plico Super F AB

Product Description:

Plibrico Super F AB is the company's super duty class air bond plastic refractory. Evolving from the original plastic material that Plibrico pioneered in the early 20th century, this material is field tested and has withstood the test of time. Economical with great workability, this workhorse can be used for a wide variety of applications. Product attributes include:

- Contains an air bonding agent for better low temperature strength and shrinkage control

Standard Packaging: 55 # / 25 kg Carton

Shelf Life: 12 months

Service Limit: 2900 °F 1590 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 138 pcf 2211 kg/m³

Bulk Density - To Place: 150 pcf 2403 kg/m³

Minimum Time To Firing: 0 hr

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

N/A cc

Chemistry (calcined) %					
Al ₂ O ₃	42.9	Alk	0.9	MgO	
SiO ₂	52.6	TiO ₂	2.0	ZrO ₂	
CaO	0.2	P ₂ O ₅		Other	
Fe ₂ O ₃	1.2	SiC			

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

Coefficient of Thermal Expansion (reversible):

2.7 x 10⁻⁶ in/in/°F / 4.9 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	4.8	0.7
1000°F / 540°C	5.9	0.8
1500°F / 815°C	7.0	1.0
2000°F / 1090°C	8.2	1.2

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	-0.5	700	5.0	250	1.7		
1500	820	-0.7	900	6.0	300	2.1	500	3.4
2000	1090	-1.0			500	3.4	800	5.5
2500	1370	0.3			700	4.8	250	1.7
2900	1590	1.4			1600	11.0		

Other Data: Material ordered in either Stiff (SF), Standard (SD), or Export (EX) workability.

Release Date: 1 Aug 2019

Heat Up Guide: Schedule A

ASTM Class: C 673 Super Duty
 Plastic Refractory

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.