



BNZ Materials, Inc.

Blazelite 23 LI AHP Data Sheet

Blazelite 2300 LI is designed for temperatures up to 2300°F (1260°C). It has excellent volume stability, high fired strengths, and excellent thermal insulation.

Maximum Service Temperature, F° (C°)	2300 (1260)			
	Cast	Range	Gunned	Range
Density, Lb. /ft ³ , (Kg/m ³)				
Dried: 220°F	63 (1041)	62-65 (993-1041)	68 (1121)	64-70 (1025-1121)
Fired 5 hrs. : 1500°F	57 (913)	54-62 (864-993)	59 (945)	55-64 (881-1025)
Mixing Water Required	Casting		Gunning	
100 lb. dry material (wt. %)	29.5 to 31.5		Pre-damp 1 to 2 gallons per 200 lbs	
Gunning Procedures			Feed pressure 14 psi	
N-1/N-2 Type Gun			Gun Pressure 35 to 50 psi	
Cold Crushing Strength, psi (MPa)				
Drying @ 220° F	500 (3.45)		500 (3.45)	
Firing @ 1500° F	350- 500 (2.41- 3.45)		350-500 (2.41 - 3.45)	
Permanent Linear Change, %				
Green to Fired @ 1500° F –	-0.27 to -0.39		-0.28 to -0.40	
Chemical Analysis, %				
Al ₂ O ₃	40.6		41.9	
SiO ₂	48.2		46.8	
Fe ₂ O ₃	1.1		1.1	
TiO ₂	0.9		0.9	
CaO	8.6		8.6	
MgO	0.2		0.2	
K ₂ O	0.36		0.36	
Na ₂ O	0.18		0.18	
Thermal Conductivity				
ASTM C417 – Mean Temperature				
Btu-in/hr-ft ² -°F (W/m K)				
°F				
250	1.56 (0.22)		1.70 (0.24)	
500	1.67 (0.24)		1.81 (0.26)	
1000	1.86 (0.27)		2.04 (0.29)	
1500	2.18 (0.31)		2.37 (0.34)	

For Product information or sales, please contact your sales representative or the Customer Service Office at 724-452-8650 or 1-800-955-8650.

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4-8-21 The physical and chemical properties of BNZ’s castables represent values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Results should not be used for specification purposes. Compliance Data Sheets are available upon request to meet specifications.