



# BNZ Materials, Inc.

## Blazelite 23 LI AHP Compliance Data Sheet – API 936

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)	
	Casting Composition Cast	Gunning Composition Gunned
Density, Lb. /ft <sup>3</sup> , (Kg/m <sup>3</sup> )		
Dried: 220°F	63 (1041)	68 (1121)
Fired 5 hrs.: 1500°F	57 (913)	59 (945)
Mixing Water Required 100 lb. dry material (wt. %)	Casting 29.5 to 33.5	Gunning Pre-damp 1 to 2 gallons per 250 lbs (one layer)
Gunning Procedures N-1/N-2 Type Gun		Feed pressure 14 psi Gun Pressure 35 to 50 psi
Cold Crushing Strength, psi (MPa)		
Drying @ 220° F - Minimum	500 (3.45)	500 (3.45)
Firing: 1500° F	325- 500 (2.24- 3.45)	350-500 (2.41 - 3.45)
Permanent Linear Change, %		
Green to Fired @ 1500° F - Maximum	-0.38	-0.48
Chemical Analysis, %		
Al <sub>2</sub> O <sub>3</sub>	40.6	41.9
SiO <sub>2</sub>	48.2	46.8
Fe <sub>2</sub> O <sub>3</sub>	1.1	1.1
TiO <sub>2</sub>	0.9	0.9
CaO	8.6	8.6
MgO	0.2	0.2
K <sub>2</sub> O	0.36	0.36
Na <sub>2</sub> O	0.18	0.18
Thermal Conductivity		
ASTM C417 – Mean Temperature		
Btu-in/hr-ft <sup>2</sup> -°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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6-8-22The 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.