



## BNZ Materials, Inc.

### Blazelite 25 HS AHP Data Sheet

Blazelite 2500 HS AHP is designed for temperatures up to 2500°F (1371°C). It has excellent volume stability, high fired strengths, and has a formulation that eliminates Alkaline Hydrolysis from forming and reacting within the formed castable.

Maximum Service Temperature, °F(°C)		2500°F (1371°C)	
	Cast		Gunned
Bulk Density, pcf			
@ 220°F	85-88		86-89
@ 1500°F Maximum	73-78		75-80
Mixing Water Required, Wt. %	26-29	1.0 to 2.0 gallons per 200 lbs.	
N-1 Gun		Feed Pressure	12 to 14 psi
		Nozzle Pressure	25 to 45 psi
Cold Crushing Strength, psi			
@ 220°F	800-1200		1300-1700
@ 1500°F	650-1000		900-1300
Permanent Linear Change			
Green to Fired @ 1500° F Maximum	-0.25 to -0.3		0.27 to -0.39
Chemical Analysis, %			
Alumina	Al <sub>2</sub> O <sub>3</sub>	44.85	43.85
Silica	SiO <sub>2</sub>	43.47	43.93
Ferric Oxide	Fe <sub>2</sub> O <sub>3</sub>	0.61	0.82
Titanium Oxide	TiO <sub>2</sub>	1.06	0.97
Calcium Oxide	CaO	9.33	9.43
Magnesium Oxide	MgO	0.28	0.35
Alkalis	Na <sub>2</sub> O & K <sub>2</sub> O	0.49	0.64

#### Thermal Conductivity

BTU in./hr·ft<sup>2</sup>·°F

#### Mean Temperature

@ 500 °F (260 °C)	3.53
@ 1000 °F (538 °C)	2.93
@ 1500 °F (816 °C)	2.98

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

BNZ Materials, Inc.  
191 Front Street  
Zelienople, PA 16063

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.