



# BNZ Materials, Inc.

## Blazelite 200 AR Data Sheet

Maximum Service Temperature, F° (C°)		2400 (1260)
	Cast	Gunned
Density, Lb. /ft <sup>3</sup> (Kg/m <sup>3</sup> )		
Dried: 220°F	127-131 (2034-2098)	127-133 (2034-2130)
Fired 5 hrs: 1500°F	114-117(1826-1874)	115-118 (1842-1890)
Mixing Water Required		
100 lb. dry material (wt. %)	15.5 – 17.5	Pre-damp 1 to 2 gallons per 200 lbs dry mix
Cold Crushing Strength, psi (MPa)		
Firing: 1500° F	9200 (63)	9900 (68)
Abrasion Loss, ASTM C704M		
Firing: 1500° F	9.5	8.5
Reheat Change, %		
ASTM C113		
Fired: 1500°F	-0.27 to -0.3	-0.27 to -0.37
Chemical Analysis, %		
Alumina	Al <sub>2</sub> O <sub>3</sub>	59.1
Silica	SiO <sub>2</sub>	22.2
Ferric Oxide	Fe <sub>2</sub> O <sub>3</sub>	0.4
Titanium Oxide	TiO <sub>2</sub>	0.7
Calcium Oxide	CaO	16.9
Magnesium Oxide	MgO	0.3
Alkalis	Na <sub>2</sub> O & K <sub>2</sub> O	0.3
Thermal Conductivity		
ASTM C417 – Mean Temperature		
Btu-in/hr-ft <sup>2</sup> -°F (W/m K)		
°F		
200		3.01 (0.43)
400		3.21 (0.46)
600		3.81 (0.55)
800		4.19 (0.60)
1000		4.62 (0.67)
1200		5.03 (0.73)

Fast Firing Capable - @ 100°F/hour with no holds

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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2-21 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.