



BNZ Materials, Inc.

Blazelite 80 Data Sheet

Maximum Service Temperature, F° (C°)	2700 (1482)	
	Cast Formula	Gun Formula
Density, Lb. /ft ³ (Kg/m ³)		
Dried: 220°F	95 (1521)	97 (1553)
Fired 5 hrs. @ 1500°F	84 (1345)	85 (1361)
Mixing Water Required Per 100 lb. dry material (wt. %)	32-34	Pre-damp as required to eliminate dust
Cold Crushing Strength, psi (MPa)		
After Drying to 220°F	1200-2200 (8-15)	1300-2500 (9-17)
Firing: 1500°F	1000-1800 (7-12)	1100-2100 (7.6-14.5)
Permanent Linear Change, %		
Green to Fired 1500°F	-0.35	-0.35
Fired: 2500°F	-0.40	-0.40
Fired: 2700°F	<-1.0	<-1.0
Chemical Analysis, %		
Alumina Al ₂ O ₃	81.6	80.0
Silica SiO ₂	0.2	0.29
Ferric Oxide Fe ₂ O ₃	0.08	0.13
Calcium Oxide CaO	17.4	18.99
Magnesium Oxide MgO	0.3	0.19
Alkalis Na ₂ O & K ₂ O	0.4	0.32
Thermal Conductivity		
Mean Temperature		
Btu-in/hr-ft ² -°F Ascending Curve		
°F	k value	
360	3.12	
700	2.23	
1100	2.94	
1500	3.87	

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.