



BNZ Materials, Inc.

Blazelite 3000 Casting Installation

Blazelite 3000 is designed for temperatures up to 3000°F (1649°C). It has excellent volume stability, high fired strengths, and excellent thermal insulation. This product has a rapid hardening composition that allows quick demolding of cast parts. For rapid demolding raise the castable mix temperature to 85°F using hot water.

Casting Procedures

Water, %	12-15
Mixing Time, minutes	3 to 5
Mixing Equipment	Paddle Mixer

Bulk Density, pcf

@ 220° F	118
@ 1500°F	116

Cold Crushing Strength, psi

@ 220°F	1885-2100
@ 1500° F Typical Range	1350-1600
Minimum	1300

Permanent Linear Change

Green to Fired @ 3000° F	-0.3
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Chemical Analysis, %

Alumina	Al ₂ O ₃	93.6
Silica	SiO ₂	0.13
Ferric Oxide	Fe ₂ O ₃	0.09
Titanium Oxide	TiO ₂	0.00
Calcium Oxide CaO		5.81
Magnesium Oxide	MgO	0.10
Alkalis	Na ₂ O & K ₂ O	0.27

Thermal Conductivity

BTU in./hr. ft ² °F	
Mean Temperature	
@ 362° F (260° C)	3.72
@ 722°F (400°C)	2.76
@ 1170°F (538° C)	3.20
@ 1500°F (816° C)	4.96

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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3-21 - 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.