

## BNZ Materials Color B Insulating Firebrick (French Grade)

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

BNZ produces many types of Insulating Fire Brick (IFB) for use in applications from 2,000°F (1,093°C) to 3,200°F (1,760°C). Each type is formulated to meet specific thermal and physical requirements and after firing is machined to precise tolerances. Made from high purity refractory clays and other ceramic raw materials, these IFB contain a carefully graded organic filler which is burned out during manufacture to give a uniform controlled pore structure. Information provided by BNZ Materials Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BNZ-Materials-Color-B-Insulating-Firebrick-French-Grade.php](http://www.lookpolymers.com/polymer_BNZ-Materials-Color-B-Insulating-Firebrick-French-Grade.php)

| Physical Properties | Metric     | English                   | Comments  |
|---------------------|------------|---------------------------|-----------|
| Density             | 0.900 g/cc | 0.0325 lb/in <sup>3</sup> | ASTM C134 |

| Mechanical Properties | Metric   | English | Comments                       |
|-----------------------|----------|---------|--------------------------------|
| Compressive Strength  | 4.00 MPa | 580 psi | Cold Crush Strength; ASTM C133 |

| Thermal Properties               | Metric                                                | English                                               | Comments                           |
|----------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------------------------------|
| CTE, linear                      | 6.30 $\mu\text{m/m-}^{\circ}\text{C}$                 | 3.50 $\mu\text{in/in-}^{\circ}\text{F}$               |                                    |
|                                  | @Temperature 20.0 - 1000 $^{\circ}\text{C}$           | @Temperature 68.0 - 1830 $^{\circ}\text{F}$           |                                    |
| Thermal Conductivity             | 0.230 W/m-K                                           | 1.60 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$   | ASTM C182                          |
|                                  | @Temperature 200 $^{\circ}\text{C}$                   | @Temperature 392 $^{\circ}\text{F}$                   |                                    |
|                                  | 0.270 W/m-K                                           | 1.87 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$   | ASTM C182                          |
|                                  | @Temperature 400 $^{\circ}\text{C}$                   | @Temperature 752 $^{\circ}\text{F}$                   |                                    |
|                                  | 0.300 W/m-K                                           | 2.08 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$   | ASTM C182                          |
|                                  | @Temperature 600 $^{\circ}\text{C}$                   | @Temperature 1110 $^{\circ}\text{F}$                  |                                    |
|                                  | 0.350 W/m-K                                           | 2.43 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$   | ASTM C182                          |
|                                  | @Temperature 800 $^{\circ}\text{C}$                   | @Temperature 1470 $^{\circ}\text{F}$                  |                                    |
|                                  | 0.400 W/m-K                                           | 2.78 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$   | ASTM C182                          |
|                                  | @Temperature 1000 $^{\circ}\text{C}$                  | @Temperature 1830 $^{\circ}\text{F}$                  |                                    |
| Maximum Service Temperature, Air | 1350 $^{\circ}\text{C}$                               | 2460 $^{\circ}\text{F}$                               |                                    |
| Shrinkage                        | 0.50 %                                                | 0.50 %                                                | Permanent Linear Change; ASTM C210 |
|                                  | @Temperature 1350 $^{\circ}\text{C}$ , Time 43200 sec | @Temperature 2460 $^{\circ}\text{F}$ , Time 12.0 hour |                                    |

| Descriptive Properties | Value | Comments                                          |
|------------------------|-------|---------------------------------------------------|
| Composition (%)        | 0.6   | CaO + MgO                                         |
|                        | 2.3   | Fe <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub> |
|                        | 4.5   | Na <sub>2</sub> O + K <sub>2</sub> O              |
|                        | 92.4  | Al <sub>2</sub> O <sub>3</sub> + SiO <sub>2</sub> |

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