



## BUSTER CEMENT



QUART JAR OF BUSTER CEMENT

### FEATURES

- High Temperature Stability to 1650°C
- Withstands Water and Steam after curing
- Safe to Use – Non-Flammable
- Excellent Thermal Shock Resistance
- Low Shrinkage, High Strength
- Available 'Off the Shelf'
- Single Part System

**Buster Cement** is an off white single part alumina adhesive with a useful temperature limit of 1650°C. **Buster Cement** is formulated specifically for bonding Zircar Alumina Felts, Boards and Cylinders to themselves or to back-up thermal insulations such as porous fire-brick and alumino-silicate fiber boards. **Buster Cement** is composed of alumina milled fibers and sub-micron particles. **Buster Cement** will not bond to non-porous surfaces such as glass or steel. **Buster Cement** is non-flammable, mildly acidic (pH 5.4) and forms a strong bond upon removal of the water solvent.

For most furnace applications, the articles bonded together are ready for placing in service once the cement has dried. Curing at 426°C (800°F) or more may be desirable to form a ceramic bond that is impervious to water and high humidity. The cured bond joint is stronger than the tensile strength of our 35 pound per cubic foot density alumina insulation Type BusterM-35. Pull out or de-lamination due to excessive mechanical or thermal stresses will usually first occur in the insulation material itself.

**Buster Cement** has the consistency of a thick paint and should be mixed thoroughly before using. It should be applied quickly to both surfaces to be joined by dipping, brushing, or rolling so that it remains wet when the surfaces are put in contact with each other. Some extrusion of the wet cement from the joint is good and will assure that the best bond has been made. The excess cement can be scraped or sponged off as required. **Buster Cement** is water based and will freeze at 32°F, but is unaffected after thawing.

For a 0.01 inch thick bond, a pint of cement will cover about 7 square feet of joint surface.

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### PROPERTIES & CHARACTERISTICS

Fired Composition - Wt%	
Al <sub>2</sub> O <sub>3</sub>	98.5
SiO <sub>2</sub>	0.5
Na <sub>2</sub> O	0.5
Zr <sub>2</sub> O	0.5
Trace Inorganics	<0.1
Melting Point, °C (°F)	1870 (3400)
Continuous Maximum Use Temperature**, °C (°F)	1650 (3000)
Solids Content, Wt%	70
Weight Per Pint, grams (lbs)	953 (2.1)
Specific Gravity, g/cc	1.95

\*\* Maximum use temperature is dependent on variables such as thermal and mechanical stresses, and the chemical environment that the material experiences.

### ORDERING INFORMATION

Buster cement is available in two standard sizes, pint and quart. Please Contact our Sales Department for pricing and availability.

- To order specify the Quantity required and the Item Number listed in the table below. For example: 5 quarts, Buster Cement, Item # GC002.

Standard Size	Item Number
1 pint	GC001
1 quart	GC002

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