



# Bluonic A

alumina binder  
for custom-blended refractory coatings

## Why Bluonic A?

- **Improved resistance to molten metals and open flame** – Customer-blended coatings for fiber shapes puts greater mixing control in your hand to improve formulation strength and flexibility.
- **No cristobalite** – Completely cristobalite free eliminating a common source of thermal shrinkage problems and health-related concerns.
- **Improved chemical bonding** – Unique modifications yield improved chemical bonding until sintering occurs.
- **Easily recognizable** – Organic blue dye shows where it is being used as a coating or patch, and burns out during firing..

## Typical Properties

Appearance	Blue liquid
pH	3.0
Specific Gravity	1.13
Al <sub>2</sub> O <sub>3</sub> , wt. %	12
Na, ppm	< 50
Crystallite size, A	40 - 90
Bulk particle size, μm	100 - 130
Concentration	18 wt%
Toxicity	Non-toxic, mildly acidic, protect eyes from splashes. See SDS.
Packaging	Plastic 55 gal. drums, 520 Lb. net; 5 gallon pails.

Bluonic A Alumina Binder is a unique aqueous binder system developed for mixing with sized refractory flours and grains to form binders and self-suspending, customer-blended coating mixes. Bluonic A systems are usable at extremely high temperatures and in contact with molten metals and open flame.

## How to Use Bluonic A for coatings

An all-alumina coating mix can be made as follows:

### Typical Formulation:

	<u>5 gallons</u>	<u>1 gallon</u>
Bluonic A, lbs	35	7
Tabular alumina 325 mesh, lbs	60	12
Tabular alumina 60 mesh, lbs	40	8

Coatings must be air- or oven-dried for good hardness, and are rewettable to 750°F. Zircon coatings will use less Bluonic A binder, and mullite coatings more binder, due to density differences.

As a rigidizer for fiber shapes, use Bluonic A full-strength and spray on or dip part for 20 seconds to get desired hardness.

For brick coating mixes, depending on color intensity required, add 5-10% pigments to Bluonic A and apply to wet clay as extruded.

### Storage, Handling, Packaging, and Safety:

Bluonic A must be stored at room temperature to protect from freezing and over-heating. Bluonic A is available in 1-gallon and 5-gallon plastic pails; plastic 55-gallon drums (520 lbs net). Bluonic A is non-toxic and mildly acidic. Protect eyes from splashes. See SDS for a complete safety discussion.

**For a price quote and valuable information on how we can help you improve your vacuum formed products call**

**WESBOND  
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