



# Wesolok A

alumina binder  
for custom blended refractory coatings

Wesolok A Alumina binder was developed for mixing with sized refractory flours and grains to provide stable, dry customized blends that can be mixed with water at time of use. This modified form of alumina gives improved chemical bonding to create hard, high temperature coatings for refractory fiber boards and shapes with improved resistance to molten metals and open flame.

## How to Use Wesolok A

An all alumina coating mix can be made as follows:

### Typical Formulation

|                                 | 5 gal | 1 gal |
|---------------------------------|-------|-------|
| Wesolok A Binder - lbs.         | 6     | 1.25  |
| Tabular Alumina 325 Mesh - lbs. | 60    | 12    |
| Tabular Alumina 60 Mesh - lbs   | 40    | 8     |
| Water to fluidize - lbs         | 25    | 5     |

Zircon coatings will use less binder and mullite coatings will use slightly more due to density differences; coatings must be air or oven dried for good hardness; heating to 750 F sets permanently.

## Use WESOLOK A to enjoy these advantages

### *Blend coatings for your specific needs*

Mix with sized refractory flours and grains to have complete flexibility in blending custom coatings for fiber shapes.

### *Improves resistance to molten metals and open flames*

Alumina based binder is ideally suited to high temperature applications.

### *Enhances bonding properties and green strengths*

This modified alumina binder yields improved chemical bonding until sintering occurs.

### *Better more uniform color*

Suspends and aids dispersions of pigments for use in color coating mixes.

### Typical Physical Properties

|                             |  |
|-----------------------------|--|
| Color                       | White  |
| Consistency                 | Dry Powder   |
| pH (20% sol)                | 4.5  |
| Average Particle Size (sol) | 50 nanometers  |
| Loss on Ignition            | 20%  |
| Toxicity                    | Non Toxic. Do not breathe dusts. Dispersions are mildly acidic. Protect eyes from splashes. See MSDS |
| Packaging                   | Fiber Drums, 350 Lbs. net; cartons 60 Lbs. net   |

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

**WESBOND  
(302) 655-7917**