



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.

Why Wesolok A?

- **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.

Typical Properties

Appearance	White powder
pH (18% in water)	3.0 – 3.5
Loose Density	44 – 50 lbs/ft ³
Al ₂ O ₃ , wt. %	76
Na, ppm	< 50
Bulk particle size, μm	40
Concentration limit, sol	18 wt%*

* Higher concentrations will thicken and gel.

How to Use Wesolok A

An all alumina coating mix can be made as follows:

Typical Formulation:

	5 Gallons	1 Gallon
Wesolok A, lbs.	6	1.25
Tabular alumina 325 Mesh, lbs	60	12
Tabular alumina 60 Mesh, lbs	40	8
Water to fluidize, lbs.	25	5

Mix Wesolok A with the ceramic grains, then add water to fluidize. 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.

Storage, Handling, Packaging, and Safety:

Wesolok A must be stored dry and protected from moisture. Under these conditions Wesolok A has an infinite shelf life.

Wesolok A is available in fiber drums, 350 lbs net, loose. Cartons: 40 lbs. net.

Wesolok A is non-toxic. Do not breathe dusts. Dispersions are 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

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