



Wesol A

alumina binder
for custom blended refractory coatings

How to Use Wesol A

An all alumina coating mix can be made as follows:

Typical Formulation

	5 gal	1 gal
Wesol A	35	7
(20% Solids) - lbs		
Tabular Alumina	60	12
325 Mesh - lbs		
Tabular Alumina	40	8
60 Mesh - lbs		

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

As a rigidizer for fiber shapes, use Wesol 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 Wesol A and apply to wet clay as extruded.

For fiber bonding, slurry 2% aluminosilicate fiber in Wesol A and vacuum form shape; recycle all filtrate and add more binder as needed to maintain a 1.10 specific gravity (about 18%).

Wesol 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. Wesol A systems are usable at extremely high temperatures and in contact with molten metals and open flame.

Use WESOL A to enjoy these advantages

Improved resistance to molten metals and open flame

Customer-blended coatings for fiber shapes puts greater mixing control in your hands improving formulation strength and flexibility.

Improved chemical bonding

Unique modifications yield improved chemical bonding until sintering occurs.

Consistent pigment dispersion

Suspends and aids dispersions of pigments providing good colorizing brick coating mixes and rigidizers.

Completely inorganic

A good inorganic binder for vacuum forming refractory fibers.

No cristobalite

Completely cristobalite free at use temperature eliminating a common source of thermal shrinkage problems and health related concerns.

Typical Physical Properties

Color	White
Consistency	Liquid
pH (20% sol)	4
Average Particle Size (sol)	40 nanometers
Specific Gravity	1.14
Stabilizing Ion	Chloride
Toxicity	Non-toxic, mildly acidic, protect eyes from splashes. See MSDS.
Packaging	Plastic 55 gal. drums, 520 Lb. net; 5 gallon pails.

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

**WESBOND
(302) 655-7917**