



# Wesolok D

more dispersible large-particle alumina  
for fiber bonding

Wesolok D Alumina binder is a more dispersible, larger particle size colloidal alumina than regular Wesolok. It is a powder, ready for fast dispersion in fiber slurries. Fiber shapes bonded with Wesolok D are more refractory and safer to use than shapes bonded with colloidal silica.

## How to Use Wesolok D

For floccing starch and fibers for vacuum forming, use formulations listed below.

### Typical Formulation

Water - Gallons	50	50
Refractory Fibers - lbs	8	8
Alumina Filler - lbs.	---	3
Westar+ Starch - lbs	0.5	0.5
Wesolok D Powder - lbs	0.6	0.7

Follow above order of addition, but add the Westar+ and Wesolok D at the same time and allow 5 - 10 minutes to disperse and floc before dropping to holding or forming tank. Form in normal fashion. Dry at 250° F. For burning out starch, 750° F is suggested as this will also remove the water of hydration from the alumina binder to set it permanently.

## Use WESOLOK D to enjoy these advantages

### *No pre-dispersing or aging*

Can be added dry to vacuum forming fiber slurries without pre-dispersing or aging, saving extra steps and equipment costs.

### *Withstands higher temperatures*

High purity alumina provides low reactivity and can be used to replace colloidal silica where greater refractoriness at use temperatures is required.

### *Flocs with cationic starch*

The lower surface charge of the alumina particles enables them to floc successfully with cationic starch.

### *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	Dry Powder
pH (20% sol)	3-4
Average Particle Size (sol)	70 nanometers
Concentration Limit (sol)*	30%
Loss on Ignition**	7 - 8 %
Toxicity	Non Toxic. Do not breathe dusts. Dispersions are mildly acidic. Protect eyes from splashes. See MSDS
Packaging	Fiber Drums, 400 Lbs. net; loose or 20 Lb. bags; cartons 60 Lbs. net.

\* Higher concentrations form thixotropic gels on standing

\*\* Typical value for Wesolok D bonded fiber products

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

**WESBOND  
(302) 655-7917**