



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**