



Wesolok

colloidal alumina
for fiber bonding

Wesolok Alumina binder is a high purity boehmite (alumina monohydrate) powder ready for dispersion in water at 5 to 10% concentration to give stable colloidal alumina sols for bonding refractory fiber shapes. This product was designed to work best with Westar+ flake corn starch.

How to Use Wesolok

Wesolok must be pre-dispersed in water and "aged" for several hours to become colloidal for optimum bonding. Add 20 Lbs. Wesolok to 25 gals. water to make an 8% sol and stir with good agitation for 15 minutes and age. Formulations for floccing are listed below.

Typical Formulation

Water-Gallons	50	50
Refractory Fibers-Lbs.	8	8
Alumina Filler	---	3
Westar+ Starch-Lbs	0.5	0.7
Wesolok 8% Sol-Lbs.	7	7

Follow above order of addition, giving starch 5 minutes to disperse and swell before adding Wesolok, mix an additional 5 minutes to achieve complete floccing before dropping to holding or forming tank. Form in normal fashion. Dry at 250°F.

Use WESOLOK to enjoy these advantages

Smaller particle size readily flocs to fibers

Has a moderate cationic charge which flocs well with all starches and works best with cationic starches like Westar+.

Withstands higher temperatures

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

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 (8% sol)	3.5 - 4.5
Average Particle Size (sol)	40 nanometers
Concentration limit (sol)*	10%
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 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**