



# Wesol D30

high concentration colloidal alumina  
for ceramic fiber bonding

Wesol D30 Alumina binder is a 30 weight percent dispersion of colloidal alumina. It can be used instead of colloidal silica in typical starch-flocced vacuum forming systems. Fiber shapes bonded with Wesol D30 are more refractory and safer to use than shapes bonded with colloidal silica.

## How to Use Wesol D30

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
Wesol D30 - lbs	2.0	2.5

Follow above order of addition, allowing the starch to disperse and dissolve for 10 minutes before adding Wesol D30. Allow 5-10 minutes to 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 WESOL D30 to enjoy these advantages

### *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	Liquid
Concentration, Wt. %	30%
pH	3.5 - 4.5
Average particle Size	100 nanometers
Stabilizing Ion	Nitrate, 0.33%
Specific Gravity	1.23
Toxicity	Non Toxic, non-hazardous, safe for spraying relative to inhalation; protect eyes from splashes and spray
Packaging	Plastic 55 gallon drums, 570 Lbs. net; 5 gallon pails; 1 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**

Wesbond Corporation  
1135 East 7<sup>th</sup> St  
Wilmington, DE 19801  
302-655-7917, fax 302-656-7885  
www.wesbond.com