



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

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