



Wesol D30

colloidal alumina
for rigidizing ceramic shapes

Why Wesol D30?

- **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, eliminating a common source of thermal shrinkage problems and health-related concerns.
- **Easy to use** – Pre-dispersed colloidal alumina requires no mixing tanks or mixers.

Typical Properties

Appearance	White liquid
pH	3.5 – 4.5
Specific Gravity	1.23
Concentration , wt. %	30
Na, ppm	< 20
Surface Area, m ² /g	140*
Crystallite size, nm	18

* After Activation (3 hours, 550°C)

Wesol D30 alumina binder is a 30 weight percent dispersion of colloidal alumina. It can be used instead of colloidal silica for rigidizing and hardening ceramic shapes, especially fiber shapes made by vacuum-forming. 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 Rigidizing

For surface hardening, edge retention, and dust reduction, Wesol D30 can be applied with a brush or roller, or a sprayer.

If rigidizing throughout the shape is desired, dip shapes or board in full strength Wesol D30 for 10 to 30 seconds to get desired pick-up and hardness.

Dry at 250°F (120°C). To set the rigidizer permanently, 750°F (400°C) is suggested as this will remove the water of hydration from the alumina binder.

Storage, Handling, Packaging, and Safety:

Wesol D30 must be stored at room temperature to protect from freezing and over-heating. Wesol D30 is available in 1- and 5-gallon plastic pails; plastic 55-gallon drums (550 lbs net). Wesol D30 is non-toxic. Dispersions are mildly acidic. Protect eyes from splashes. See SDS for a complete safety discussion.

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

WESBOND
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