



# Wesolok D

more dispersible large-particle alumina  
for rigidizing

## How to Use Wesolok D

Wesolok D is easily converted to colloidal alumina sol by mixing with water. Dry at 250°F (120°C). To set the rigidizer permanently, 750°F (400°C) is suggested as this will also remove the water of hydration from the alumina.

Blending by Weight			
Water (gallons)	1	1	1
Wesolok D (lbs)	2	3	3.5
Concentration	19%	26%	30%

Blending by Weight			
Water (liters)	4	3	2.5
Wesolok D (kg)	1	1	1
Concentration	20%	25%	29%

Blending by Weight			
Water (lbs)	35	36	38
Wesolok D (lbs)	15	12	9.5
Concentration	30%	25%	20%
Final Volume (gals)	5	5	5

### Typical Physical Properties

Color	White
Consistency	Dry Powder
pH (20% sol)	3-4
Loose Bulk Density (g/l)	870
Average Particle Size (sol)	70 nanometers
Concentration Limit (sol)*	30%
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.

Wesolok D Alumina rigidizer is a more dispersible, larger particle size colloidal alumina than regular Wesolok. It is a powder, ready for fast dispersion in water at 20 to 30% concentration to give stable colloidal alumina sols. Use Wesolok D for rigidizing to give fiber shapes that are more refractory and safer to use than colloidal silica rigidized shapes.

## Use WESOLOK D to enjoy these advantages

### *Fast dispersing*

Alumina sols of 20-30% concentration can be easily prepared with minimal mixing.

### *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.

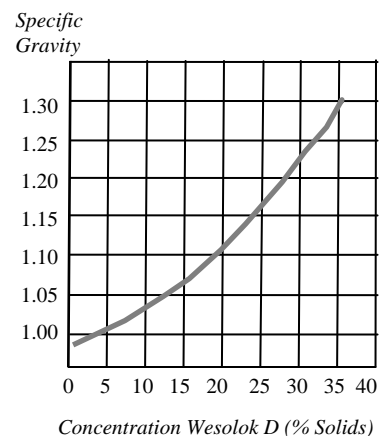
### *Rapid, deeper absorption*

The larger particle size, with its lower surface charge and viscosity, is absorbed rapidly and deeply for thorough rigidizing.

### *No Cristobalite*

Completely cristobalite free at use temperature eliminating a common source of thermal shrinkage problems and health related concerns.

Wesolok D  
Specific Gravity vs. Concentration



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

**WESBOND**  
**(302) 655-7917**