

## Rigidizer (Colloidal Alumina)

- Colloidal alumina rigidizer is a high concentration (33%), large particle size sol for superior rigidizing of refractory fiber shapes.
- Colloidal alumina offers advantages over colloidal silica sols including
  - Lower electrolytes so lower reactivity at high temperatures
  - Larger particle size and low viscosity for faster & deeper absorption
  - Less tendency to migrate to the surface upon drying, resulting in a more uniform product.
  - Completely cristobalite free at use temperature eliminating a common source of thermal shrinkage problems & health related concerns.
  - Non-toxic. Non-hazardous, safe for spraying relative to inhalation; protect eyes from splashes and spray.

Typical Physical Properties	
Color	White
Consistency	Liquid
Concentration, wt %	30
pH (20% sol)	3.5—4.5
Average particle size, nm	100
Specific gravity	1.23
Stabilizing ion	Nitrate, 0.33%

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