



# Wesol Q20

colloidal alumina  
for rigidizing ceramic fiber shapes

## Why Wesol Q20?

- **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** – Predispersed colloidal alumina requires no mixing tanks or mixers.

### Typical Properties

Appearance	White liquid
pH	3.2
Specific Gravity	1.14
Al <sub>2</sub> O <sub>3</sub> , wt. %	16
Na, ppm	< 50
Surface Area, m <sup>2</sup> /g	200 – 300*
Crystallite size, Å	40 - 90
Bulk particle size, µm	100 - 130
Concentration	20 wt%

\* After Activation (3 hours, 550°C)

Wesol Q200 alumina binder is a 20 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 Q20 are more refractory and safer to use than shapes bonded with colloidal silica.

### How to Use Wesol Q20 for Rigidizing

Dip shapes or board to be rigidized in full strength Wesol Q20 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 also remove the water of hydration from the alumina binder.

### Storage, Handling, Packaging, and Safety:

Wesol Q20 must be stored at room temperature to protect from freezing and over-heating. Wesol Q20 is available in 1- and 5-gallon plastic pails; plastic 55-gallon drums (520 lbs net). Wesol Q20 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**  
**(302) 655-7917**