



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

Typical Properties

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

* After Activation (3 hours, 550°C)

Wesol Q20 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