



Wesol AQ

alumina binder

for custom-blended refractory coatings

Why Wesol AQ?

- **Improved resistance to molten metals and open flame** – Customer-blended coatings for fiber shapes puts greater mixing control in your hand to improve formulation strength and flexibility.
- **No cristobalite** – Completely cristobalite free eliminating a common source of thermal shrinkage problems and health-related concerns.
- **Improved chemical bonding** – Unique modifications yield improved chemical bonding until sintering occurs.
- **Consistent pigment dispersion** - Suspends and aids dispersions of pigments providing good colorizing brick coating mixes and rigidizers.

Typical Properties

Appearance	White liquid
pH	3.0
Specific Gravity	1.13
Al ₂ O ₃ , wt. %	15
Na, ppm	< 50
Surface Area, m ² /g	200 – 300*
Crystallite size, Å	40 - 90
Bulk particle size, µm	100 - 130
Concentration	18 wt%

* After Activation (3 hours, 550°C)

How to Use Wesol AQ for coatings

An all-alumina coating mix can be made as follows:

Typical Formulation:

	<u>5 gallons</u>	<u>1 gallon</u>
Wesol AQ, lbs	35	7
Tabular alumina 325 mesh, lbs	60	12
Tabular alumina 60 mesh, lbs	40	8

Coatings must be air- or oven-dried for good hardness, and are rewettable to 750°F. Zircon coatings will use less Wesol AQ binder, and mullite coatings more binder, due to density differences.

As a rigidizer for fiber shapes, use Wesol AQ full-strength and spray on or dip part for 20 seconds to get desired hardness.

For brick coating mixes, depending on color intensity required, add 5-10% pigments to Wesol AQ and apply to wet clay as extruded.

Storage, Handling, Packaging, and Safety:

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

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