

Rigidizer (Colloidal Silica)

- CeraSol 1440 is the most commonly used colloidal silica for bonding refractory fibers and rigidizing refractory fiber shapes and boards.
- CeraSol 1440 is an economical 40% concentration silica sol of 14 nanometer diameter amorphous silica spheres.

Typical Physical Properties	
Color	Clear
Consistency	Slightly viscous liquid
Specific Gravity	1.3
Particle Size, nm	14 average
Silica, wt%	40
Na ₂ O, wt%	0.50
pH @ 25°C	10.4
Viscosity @ 25°C, cp	15
Toxicity	Non-toxic. See MSDS.
Packaging	55 gal drums; 5 gallon; 1 gallon; 1 pint

Good High Temperature Bonds -

Colloidal silica bonds withstand temperatures up to 2300°F with low shrinkage..

Saves Money -

Economical 40% concentration reduces freight and package costs over lower concentration sols.

Flocs with Cationic Starch -

Negative surface charge flocs cationic starch refractory fibers together to form a three dimensional floc for good product strength.

Rigidizes Effectively -

Can be used diluted or full strength for sealing or rigidizing of fiber-bonded shapes

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