



**CERAMATERIALS**

*"Your One Stop Shop for Thermal Processing"*

## **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.
- 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.
- Floccs with Cationic Starch -Negative surface charge floccs 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

Color	Clear
Consistency	Slightly viscous liquid
Consistency	1.3
Particle Size,nm	average
Silica, wt%	40
Na <sub>2</sub> O, wt%	0.50
pH @ 25°C	10.4
Viscosity @ 25°C,cp	15
Toxicity	Non-toxic. See SDS.
Packaging	55 gal drums; 5 gallon; 1 gallon; 1 pint