AquaSilk Cerium Oxide Suspension Liquid

After cerium particles are dispersed in water to create a slurry, the cerium powders start to settle out of suspension because cerium powder is about 7 times as heavy as water. When this occurs, the Baume level (concentration) of the slurry becomes unstable and gradually drops. This reduces the cerium removal rate and polishing efficiency.

During the polishing operation, the cerium powders and ground glass fines are mixed. When this mixture falls out of suspension, it forms a layer of hard sludge at the bottom of the slurry tank and in the circulating piping. The hard sludge is very difficult to re-disperse and mix back into suspension.

AquaSilk is a concentrated suspension liquid that can be used in cerium slurry. Aqua Silk will:

- Improve polishing efficiency
- Reduce material and labor costs
- Ensure that precipitated particles can be re-dispersed quickly and easily
- Achieve better surface finish with less sub-surface damage
- Prevent the cerium sediment from hardening in troughs or lines
- Enhance the cleanability of both the glass substrate and the machinery
- Help the wetting, dispersion, and suspension of the abrasive in the slurry

**Directions:**
AquaSilk is recommended for use at 5% (6.25 oz./gallon, or 50 ml/L) with deionized or tap water. (Add 1 part of AquaSilk to 20 parts of water).

After AquaSilk is mixed with the water in the slurry tank, add cerium powder to the mixture and gently agitate for 10 to 20 minutes.