



## Ultra-Sol 500K

**Ultra-Sol 500K** is colloidal silica especially designed for use on most precious materials such as silicon.

### TECHICAL BULLETIN

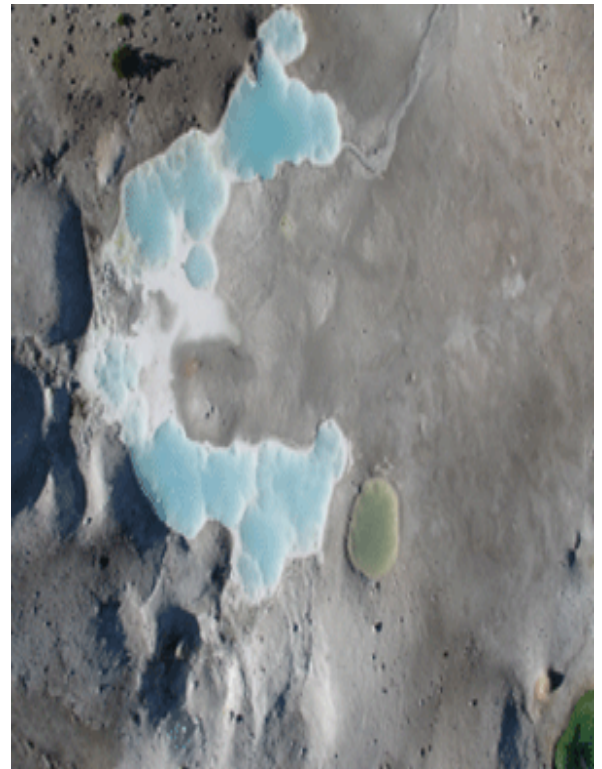
#### Properties:

pH:	9
% Solids by weight:	50%
Mean particle size:	50nm

**Ultra-Sol 500K** was developed in response to our Customers' needs for a slightly less aggressive material than our standard ULTRA-SOL 500S N/D the 500K is produced by a different method from the 500S and thus provides a softer response on infrared material

Chosen by opticians and metallurgist for its non-Drying, non-caking and non-crystallizing characteristics, Ultra-Sol 500K reduces the latent scratches and equipment down time thus reducing costly rework or equipment off-line cleaning

While having small particle size (mean particle size = 50 nm) Ultra-Sol 500K with its aggressive chemical-mechanical polishing actions is capable of producing surfaces of less than 10 Å rms under optimal conditions



### Application

- *Used for polishing oxides, metals, semi-conductor and ceramic based materials such us silicon, fused quartz, fuzed silica, lithium niobale, YAG, GGG, alexandrite, sapphire and host of others*
- *Dilution up to 1 : 1 with deionizer water is possible*
- *Can be used with pitch, polyurethane or short nap pads*

Date: 12 / 12 / 07