FUJI ASL SiO₂ Sol

Primary particle size (nm)	Viscosity (mPa∙s/ 25 °C) adjustable	SiO₂ concentration (%)	Solvent (wt %)	Organic Resin (%)	Organic Solvent
0.45 – 0.65	1500 – 300,000	80-90	10-20	0	Diethylene Glycol Ethyl Methyl Ether etc

Fuji ASL SiO₂ sol is the specially made SiO₂ particle (SiO₂ molecule) dispersion sol and the size of individual SiO₂ particle is 0.45 - 0.65 nm. With the cutting edge technology, specially synthesize SiO₂ material.

- (1) Become transparent glass at 150 °C. (SiO₂ solidification occurs 150 °C.)
- (2) Viscosity adjustable (low high viscosity)
- (3) 100 % inorganic SiO₂ (no organic substance or resin)
- (4) Good compatibility with chemical additive, so that customer can make final coating ink based on their demands.
- (5) Can be applied as inorganic binder for various materials such as
- (a) Inorganic (organic) pigment
- (b) Fluorescent pigment
- (c) Dielectric material
- (d) TiO₂, ZnO etc...
- (e) Ceramic
- (f) Magnetic material
- (g) Fiber etc...

- (6) Light fastness is extremely strong
- (7) Strong against heat
- (8) High heat conductance, (high heat emit)
- (9) Good insulate material, high resistance
- (10) Can be printed and heated on flexible substrate (flexible even after heat treated)
- (a) Plastic (PE, PP, PET etc...)
- (b) Metal board (Aluminium, SUS, copper, Iron etc...)
- (c) Ceramic, Glass board
- (d) Paper
- (e) Textile
- (11) High resistance against solvent, water, acid, base
- (12) High resistance against humidity
- (13) Robust material, Film can be as thick as in order of 2-3 mm, still robust film
- (14) High safety SiO₂ material (no toxin)
- (15) Organic solvent can be modified as customer needs.

Please let me know your interest.

Best regards Dr. Ryohei Mori



Transparency do not change with SiO₂ coating





Individual SiO₂ particle size is 0.45 – 0.65 nm. (1 or 2 molecules)