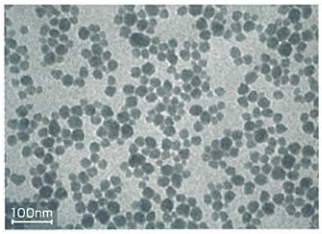
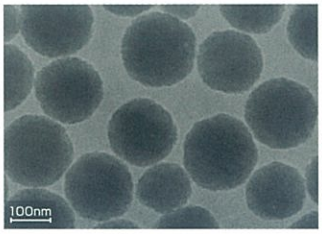
Snowtex™

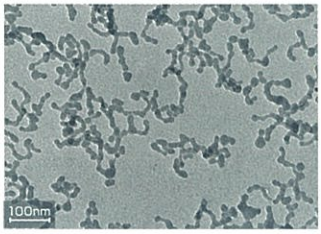
COLLOIDAL SILICA



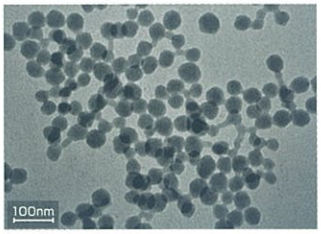
ST-30



MP-1040



ST-UP



ST-PS-M

Snowtex types

Na type Alkaline sol pH-adjusted with sodium hydroxide

N type Alkaline sol pH-adjusted with ammonia

C type Alkaline sol with high stability in neutral pH range

O type Acidic sol (Sodium ion reduced from Na type)

AK type Acidic sol (Cationic surface)

Typical grades

Type	Particle size /Shape / pH/Charge	5nm*1 Spherical	9nm Spherical	12nm Spherical	22nm Spherical	45nm Spherical	60nm Spherical	80nm Spherical
Na type	Alkaline/Neg.	ST-XS	ST-S	ST-30	ST-50-T	ST-30L	ST-YL	ST-ZL
O type	Acid/Neg.	ST-OXS	ST-OS	ST-O	ST-O-40	ST-OL	ST-OYL	–
N type	Alkaline/Neg.	ST-NXS	ST-NS	ST-N	ST-N-40	–	–	–
C type	Alkaline/Neg.	ST-CXS	–	ST-C	ST-CM	–	–	–
AK type	Acid/Pos.	–	–	ST-AK	–	ST-AK-L	ST-AK-YL	–

Type	Particle size /Shape / pH/Charge	100nm*2 Spherical	12nm Chain	15nm String-of pearls	25nm String-of pearls
Na type	Alkaline/Neg.	MP-1040	ST-UP	ST-PS-S	ST-PS-M
O type	Acid/Neg.	–	ST-OUP	ST-PS-SO	ST-PS-MO

Particle size by BET method. *1: Sears method, *2: Laser diffraction method is used.
The figures above are general properties, not guaranteed properties.

Other products Silicate solution: ST-K2, LSS-35, LSS-45, LSS-75

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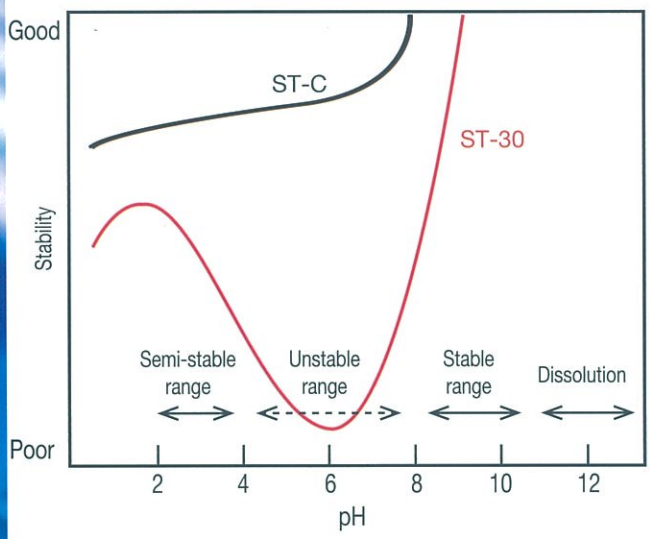
Physical Properties of Typical Grades

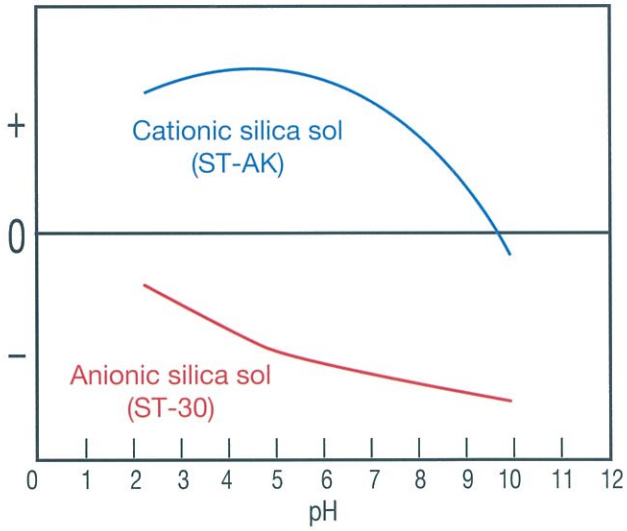
	Na type	O type	N type	C type	AK type	Chain Na type
Grade	ST-30	ST-O	ST-N	ST-C	ST-AK	ST-UP
SiO_2 (%)	30	20	20	20	20(soild)	20
Na_2O (%)	0.34	0.03	0.03	0.03	0.03	0.30
pH [20°C]	10	3	10	9	5	10
Particle size (nm) [BET]	12	12	12	12	12	12
Viscosity (mPa·s) [25°C]	4	2	4	6	4	15

The figures above are general properties, not guaranteed properties.

Stability of Snowtex



Zeta potential chart



■ Precautions for handling

1. This product is intended for industrial use. Refer to SDS for use.
2. Be careful not to put the product in eyes. If it enters eyes, immediately flush with clean water and consult with a physician.
3. Store the product at 0°C to 40°C and avoid storage under direct sunlight.
4. Note that the product cannot be restored to original properties once frozen.

■ Contact

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