

Effective Suspension of Silica Nanoparticles (SiO₂) in Aqueous and Non-aqueous Solutions

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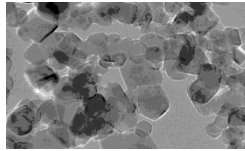
- **Abstract:**

- Silica particles below 300 nanometers are called nano-silica. Silica particles above this size are called sub-micron.

- **Keywords:** Nanoparticle , Nanoelectronic , Silica particles , Nano Device, Nano-silica

Introduction •

Nanosilica has attracted attention due to its increased mechanical strength of composite resins. Particle size affects surface strength and smoothness, and most studies use a range of 5 to 200 nm. The amount of surface transparency is also directly related to particle size. Particle sizes greater than 100 nm cause visible light scattering and reduce transparency. Also, the high specific surface area of nanoparticle results in high surface energy and effective suspension of silica nanoparticles in aqueous and non-aqueous solutions. It should be noted that silica particles, by their chemical nature, are not soluble in aqueous solvents and many conventional non-aqueous solvents, and this stable suspension property of nanosilica particles is of interest in many industrial applications.



Silicon dioxide (SiO₂) nanoparticles have been widely used in the field of nanoelectronic devices and biomedical nanobiochips such as drug delivery and gene therapy. Nanosilica particles have found their place in many areas including drug delivery systems, catalysis, biotherapeutics, in vivo imaging, colorimetry, sensors, liquid armor, and as fillers in composite materials. Nanosilica has great potential for a variety of diagnostic and general, industrial applications. In contrast to crystalline micron-sized silicate itself, relatively little information is available on the toxicity of its amorphous and nanosized forms. Because nanoparticles have novel properties, kinetics, and unusual biological activity, their potential biological effects may be very different from those of bulk micron-sized materials.



The high specific surface area of the nano particles creates high surface energy and effective suspension of silica nanoparticles in aqueous and non-aqueous solutions. It should be noted that silica particles, by their chemical nature, are not soluble in aqueous solvents and many conventional non-aqueous solvents, and this property of stable suspension of nano silica particles is of interest in many industrial applications.

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