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Silicon Dioxide Nanoparticles SOP13

Description:

Silicon dioxide, also known as silica, is an oxide of silicon with the chemical formula SiO2, most commonly found in nature as quartz. Silica compounds can be divided into two groups, crystalline (or c-silica) and amorphous silica (a-silica or non-crystalline silica). a-Silica chemical structures are more randomly linked when compared to c-silica. Silica is odorless solid composed of silicon and oxygen atoms. Amorphous and dielectric properties of SiO2 are suitable to be used as microwave absorber electric for anti-radar.

Characterization	
CAS	7631-86-9
Stock No.	SOP1301
Molecular formula	SiO2
Molecular weight (g/mol)	60.08
Form	Powder
Color	White
Morphology	Semi-spherical
Crystal structure	Amorphous
Size range (nm)	40-80
Total impurity (%)	N/A
Density (g/cm3)	2.5
Solubility	Insoluble



Image of silicon dioxide nanopowder (SOP1301)

Note: product specifications are subject to amendment and may change over time.

Applications (but not limited to the following):

As filler in rubber and plastics, drying powder, substrate for catalysts, anticorrosion agent, electronic devices, insulator, food additives, pharmaceutical.

Safety:

Avoid breathing dust.

Always use protective gloves and safety glasses.

Wash with soap and water after exposure.

Refer to MSDS prior to handling this material.



Address: Tehran-Damavand road, Pardis technology park, commercialization and techmart building, No. 1304

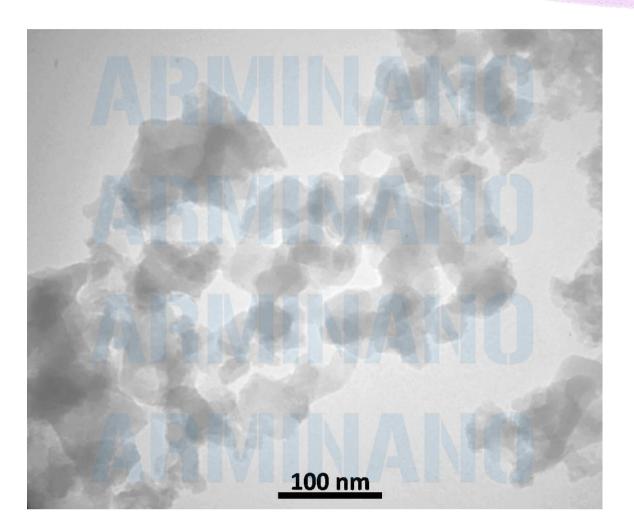
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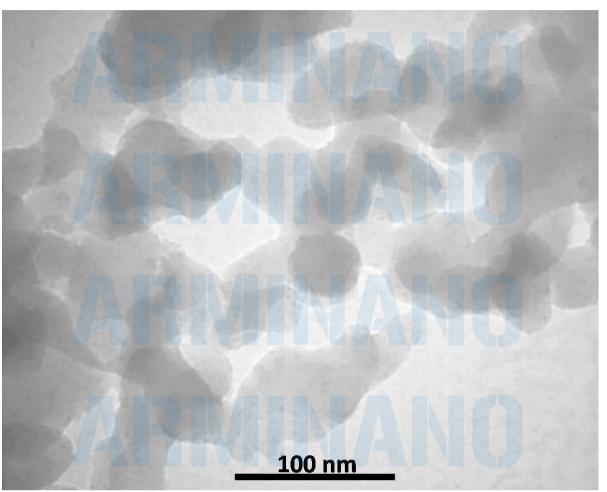


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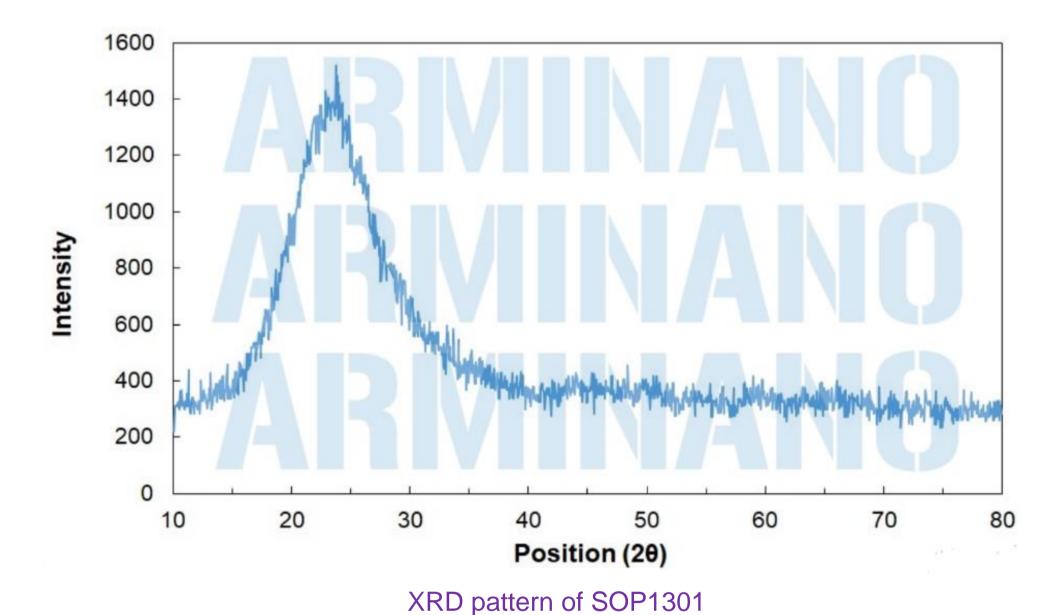


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TEM images of SOP1301



Storage:

Keep it in cool dry place.

Avoid direct sunlight.

Do not freeze.

To disperse nanoparticles sonication could be used.

Shelf life:

When stored as specified the product is stable for at least 6 months.

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