

## Technical Specifications Datasheet (TDS)

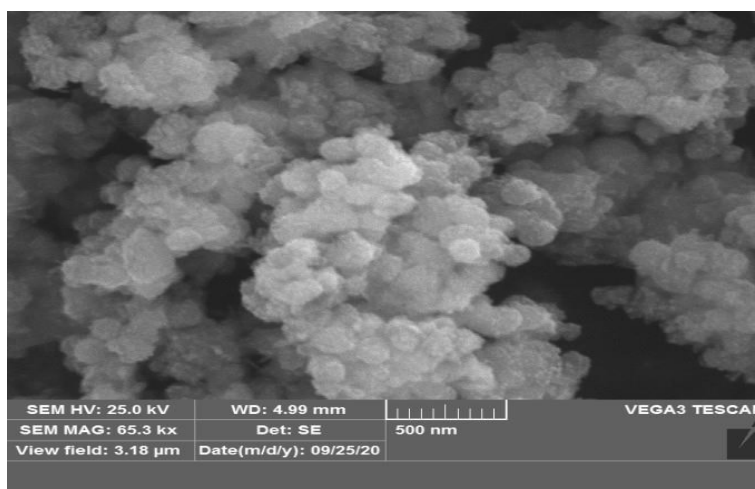
**Product Name:** Silicon Dioxide Nanoparticles

**Product Series:** SiO<sub>2</sub>

### Properties:

Specifications	Values
Purity	99.9%
Average Particle Size	20 - 50 nm
SSA	220 m <sup>2</sup> /g
Molecular Weight	231.533 g/mol
Molecular Formula	SiO <sub>2</sub>
Melting Point	2852 °C
Bulk Density	0.6 g/cm <sup>3</sup>
Cas No.	1309-48-4
Physical Form	Powder
Morphology	Spherical
Color	White

### SEM IMAGES



## Size Distribution Report by Intensity

v2.2



### Sample Details

Sample Name: S1  
SOP Name: mansettings.nano  
General Notes:

File Name: Metal.dts	Dispersant Name: ethanol
Record Number: 89	Dispersant RI: 1.360
Material RI: 1.46	Viscosity (cP): 16.1118
Material Absorbtion: 0.100	Measurement Date and Time: 17 April 2021 15:22:38

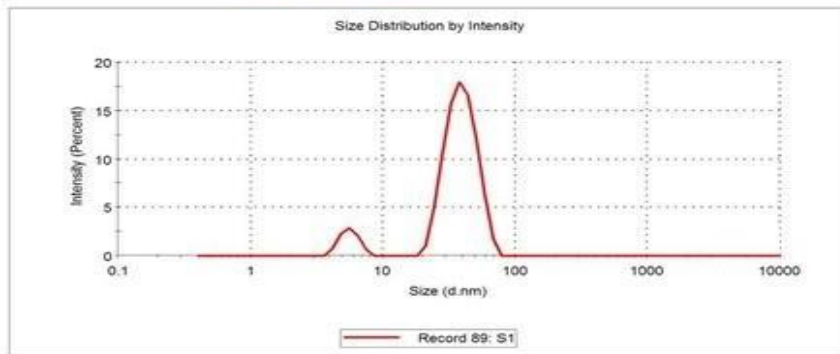
### System

Temperature (°C): 25.0	Duration Used (s): 80
Count Rate (kcps): 147.5	Measurement Position (mm): 4.65
Cell Description: Disposable sizing cuvette	Attenuator: 7

### Results

	Size (d.n...	% Intensity:	St Dev (d.n...
Z-Average (d.nm): 33.49	Peak 1: 39.80	89.9	10.30
Pdl: 0.377	Peak 2: 5.634	10.0	0.8973
Intercept: 0.934	Peak 3: 0.000	0.0	0.000

Result quality **Refer to quality report**



Techinstro assures the above specification and dimensions of the product as per the datasheet. We ensure the quality of the product with moisture-proof packing. This sheet is also available on the website, where a researcher or purchaser can also download it merely by clicking on the pdf link. The terms and conditions for the product purchase are mentioned in the quotation. For safe product storage, tips and procedures are provided with the material. For more queries, contact our technical support