

SILICON DIOXIDE NANOPOWDER



Purity
99.9%

SiO₂

NS6130-03-392

NEXT



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SILICON DIOXIDE NANOPOWDER

Silica nanoparticles are the mostly used nanomaterials to build pH nanosensor. Silica nanoparticles are optically transparent, of low toxicity, inert to pH, and (some are) degradable. More attractively, their surface can be easily functionalized via the well-established silane technology. Silicon dioxide nanoparticles, also known as silica nanoparticles, are promising for biological applications owing to their excellent biocompatibility, low toxicity, thermal stability, facile synthetic route, and large-scale synthetic availability.

The application of Si-NPs in agriculture may also lead to global food security by helping in the development of improved varieties with high productivity. Silicon nanoparticles are promising and have agricultural implications, and several new applications are being used for plants. In the agricultural sector, Si-NPs are used to be applied as a weapon against heavy metal toxicity UVB stress, salinity stress, dehydration etc.

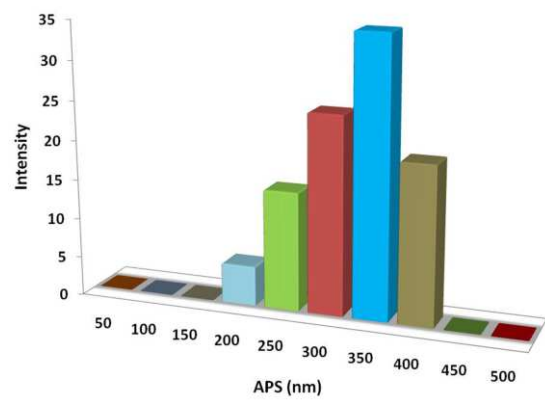
QuickFACTS

Product	:	Silicon Dioxide Nanopowder
Stock No	:	NS6130-03-392
CAS	:	7631-86-9
Color	:	White
Form	:	Powder
Symbol	:	SiO ₂
Group	:	Silicon 14/Oxygen 16

Electronic Configuration:

Silicon [Ne] 3s² 3p²

Oxygen [He] 2s² 2p⁴



ADDITIONAL POWDER CHARACTERISTICS

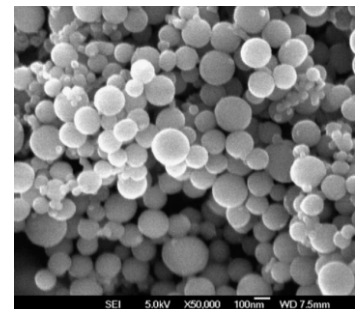
Stock No.	Purity	APS
NS6130-03-392	99.9%	250nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
SiO ₂	60.08 g/mol	2.4 g/cm ³	1600 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	SiO ₂	Other Metal
Silicon Dioxide Nanopowder	99.9%	1000ppm



APPLICATIONS

- > As an additive for rubber and plastics
- > As a strengthening filler for concrete and other construction composites
- > Non-toxic platform for biomedical applications such as drug delivery and theranostics
- > Agricultural implications



ISO 9001:2015
CERTIFIED COMPANY

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