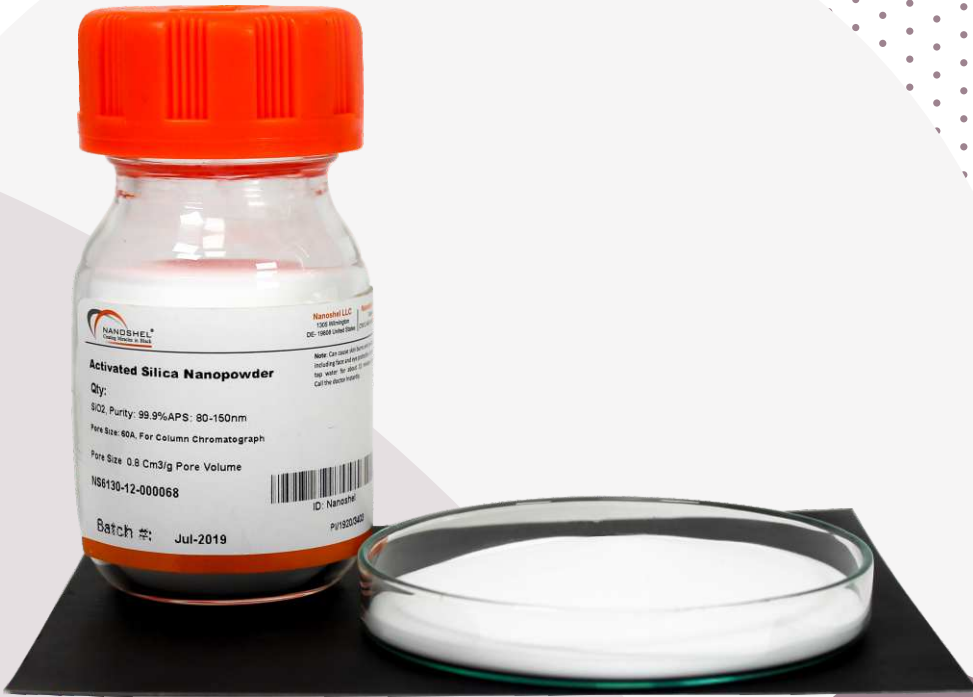


SILICA NANOPOWDER



Purity
99.9%

SiO₂

NS6130-12-000068

NEXT



SILICA NANOPARTICLES

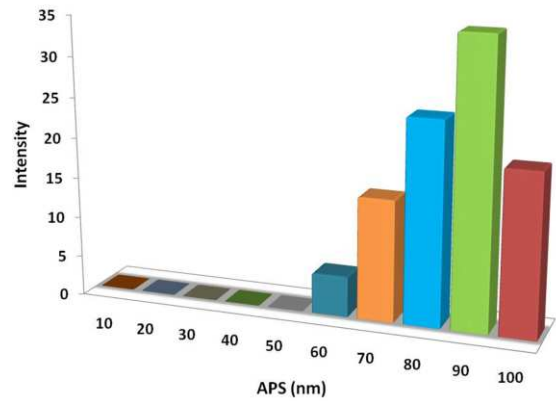
Silica nanoparticles are frequently utilized nanomaterials to build pH nanosensor. Silica nanoparticles are optically transparent, of low toxicity, inert to pH, and (some are) degradable. Moreover, its surface can be easily functionalized via the well-established silane technology that is most beneficial. Silica nanoparticles are promising material for biological applications because of their excellent biocompatibility, low toxicity, thermal stability as well as easy synthetic route. It has synthesized availability at large-scale. 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	:	Silica Nanoparticles
Stock No	:	NS6130-12-000690
CAS	:	14808-60-7
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

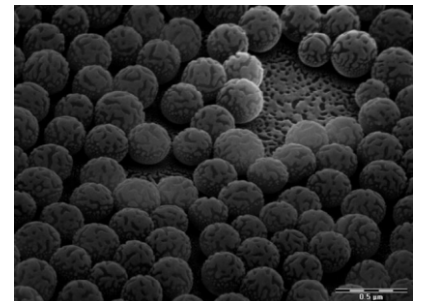
Stock No.	Purity	APS
NS6130-12-000690	99.9%	<100nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
SiO ₂	60.08 g/mol	2.6 g/cm ³	1610 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	SiO ₂	Other Metal
Gadolinium Oxide 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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