

# SILICON OXIDE MESOPOROUS NANOPOWDER



Purity  
**99.9%**

**SiO<sub>2</sub>**



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NS6130-10-1159

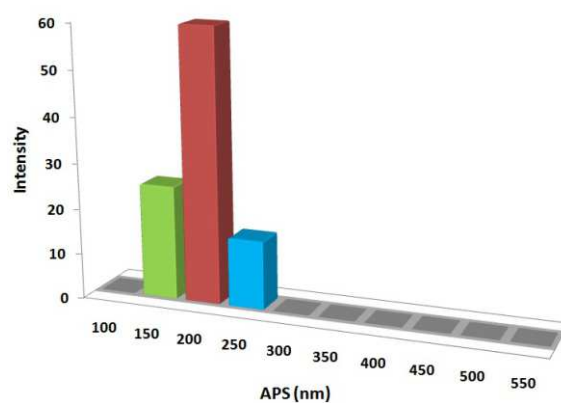
NEXT 

## SILICON OXIDE MESOPOROUS NANOPOWDER

Mesoporous silica shows 2D-hexagonal and 3D-cubic structural characteristics. This compound has unique properties, for instance, they have controlled particle size, porosity, high chemical stability, and morphology. These nanoparticles show chemical stability due to this these are highly attractive as drug carriers, diagnostic catalysis, separation, and sensing. Mesoporous silica materials have applications in drug delivery systems due to their textural properties. These nanoparticles can load the high amount of drug owing to their pore channels. The mesoporous silica's interior pores facilitate loading of organic molecules such as MRI contrast agents and fluorescent as well for delivery of drug RNA and DNA. Moreover, the external surface of these nanoparticles can be functionalized and provides site-specific targeting abilities. Mesoporous silica nanoparticles (MSNs) have a distinct number of potential applications depending upon the nature of pore, shape, size, and connectivity of mesoporous silica particles. It is used in catalysis and it has also the biological application includes imaging and diagnostic agents.

## QuickFACTS

Product	:	Silicon Oxide Mesoporous NPs
Stock No	:	NS6130-10-1159
CAS	:	7631-86-9
Color	:	White
Form	:	Powder
Symbol	:	SiO <sub>2</sub>



## ADDITIONAL POWDER CHARACTERISTICS

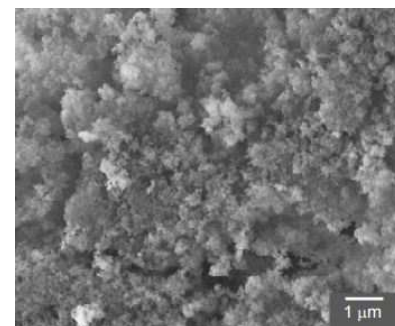
Stock No.	Purity	APS
NS6130-10-1159	99.9%	200nm

## TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
SiO <sub>2</sub>	60.08 g/mol	2.4 g/cm <sup>3</sup>	1713 °C

## CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	SiO <sub>2</sub>	Other Metal
Silicon Oxide Nanopowder	99.9%	1000ppm



## APPLICATIONS

- > Utilized as drug carriers
- > In catalysis
- > Biological applications such as imaging.
- > MRI contrast agents
- > Used in optoelectronic devices
- > Used in biosensing



ISO 9001:2015  
CERTIFIED COMPANY

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