

# ALUMINUM NANOPOWDER



SiO<sub>2</sub> Coated

    /nanoshel

[www.nanoshel.com](http://www.nanoshel.com) | [sales@nanoshel.com](mailto:sales@nanoshel.com)

Tel: +91 9779550077, 9779238252



NEXT



## APPLICATIONS

- ✓ Chemical industry
- ✓ Metallurgy
- ✓ Pharmaceutical
- ✓ Food industries
- ✓ Ceramic industry



Product	: Aluminum Nanopowder SiO <sub>2</sub> Coated
Stock No	: NS6130-01-153
CAS	: 7429-90-5
Color	: Light Gray
Form	: Powder

## Additional Powder Characteristics

Stock No.	Purity	APS
NS6130-01-153	99.9%	80-100nm

Alumina is used in the chemical industry, metallurgy, pharmaceutical, and food industries due to the cheapness. Alumina having good mechanical and optical properties. It has been widely used as catalyst and catalyst support. It also exhibits extensive applications in ceramic industry and structural composites. The Surface of mostly ceramic NPs such as alumina is polar and hydrophilic nature. That's

why they do not disperse in organic environments. This feature prevents their use in the industry. This limitation can be overcome by modifying their surface by appropriate modifiers. Fatty acids are used as modifiers for surface NPs, such as the surface of SiO<sub>2</sub> NPs was modified by oleic acid. Oleic acid was connected through an ester bond to the surface of nano-SiO<sub>2</sub>. Results showed the

modified NPs dispersion capabilities in non-polar solvents such as petroleum or mineral oils. NP. Silicon dioxide (SiO<sub>2</sub>) nanoparticles are among the most important industrially engineered NPs. They are used in paints and coatings for improved rheology, attachment, and scratch-resistance and in printer toners, they serve as anti-binder.



# Technical Specification

Molecular Formula	SSA	pH	Silica Coating Thickness
Al/SiO <sub>2</sub>	15-20 m <sup>2</sup> /g	6.6-7.2	10-15 nm

## Properties

- ✓ Chemical Symbol: Al/SiO<sub>2</sub>
- ✓ CAS No.: 7429-90-5

## Chemical Composition

Product	Weight Percent (nominal)	
	Al/SiO <sub>2</sub>	Other Metal
Aluminum Nanopowder SiO <sub>2</sub> Coated	99.9 %	850ppm

## Ordering Information and Stock Availability

- ✓ Product: Aluminum Nanopowder SiO<sub>2</sub> Coated
- ✓ Stock Availability: Available
- ✓ Distribution: Global
- ✓ Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

### Handling Recommendations

- ✓ Store in the original container in a dry location.
- ✓ Tumble contents prior to use to prevent segregation.
- ✓ Open containers should be stored in a drying oven to prevent moisture pickup.

### Safety Recommendations

Download MSDS/SDS NS6130-01-153

SDS are available from the Nanoshel

Website at

<https://www.nanoshel.com/product/aluminium-nanoparticle-silica-coating>

