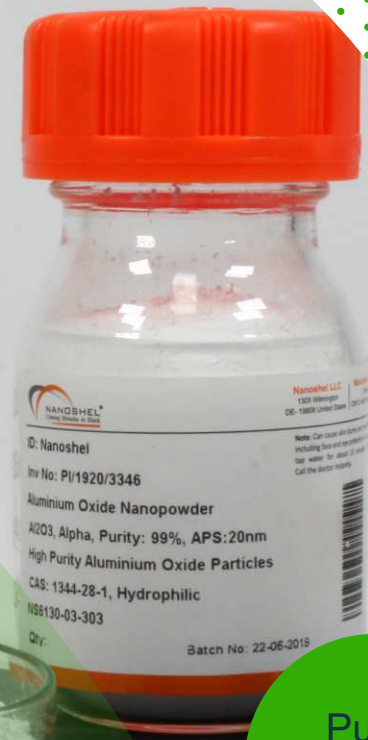


ALUMINIUM OXIDE NANOPOWDER



Purity
99.9%



NS6130-03-303

NEXT



Follow us:

| www.nanoshel.com | sales@nanoshel.com

ALUMINIUM OXIDE NANOPOWDER

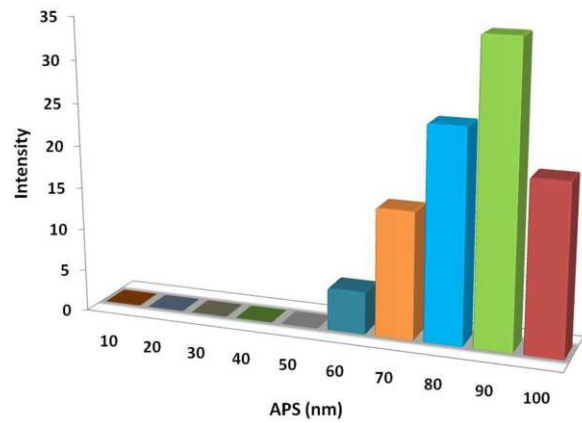
Nanoparticle research is an area of strong scientific interest due to the variety of potential applications in optical, biomedical, and electronic fields. Aluminium oxide is responsible for metallic aluminum's resistance to weathering. Metallic aluminium is very reactive with atmospheric oxygen, and a thin passivation layer of alumina quickly forms on any exposed aluminium surface. This layer protects the metal from further oxidation. The thickness and properties of this oxide layer can be enhanced using a process called anodizing.

QuickFACTS

Product	:	ALUMINIUM Oxide Nanopowder
Stock No	:	NS6130-03-300 to NS6130-03-303
CAS	:	7429-90-5
Color	:	White
Form	:	Powder
Symbol	:	Al ₂ O ₃
Group	:	13

Electronic Configuration:

[Ne] 3s² 3p¹



ADDITIONAL POWDER CHARACTERISTICS

Stock No.	Purity	APS
NS6130-03-300	99.9%	<100nm
NS6130-03-301	99.9%	80nm
NS6130-03-302	99.9%	20nm
NS6130-03-303	99%	20nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
Al ₂ O ₃	101.96 g/mol	2072 g/cm ³	2072°C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	Other Metal
ALUMINIUM Oxide Nanopowder	99.9%	1000ppm
	99%	10000ppm

APPLICATIONS

- > Dispersion-strengthening
- > Nanocomposites
- > Catalyst support
- > Transparent conductive coatings
- > Biomaterials
- > Heat-transfer fluids (suspensions)
- > Drug delivery
- > Sources for IC board or package
- > Transparent optical coatings
- > Wear-resistant additives
- > Material surface coatings



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

INTELLIGENT MATERIALS PVT LTD
Derabassi
Punjab (140507)
INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED
Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom

+44 1782 454 144, +44 74 105 48802

NANOSHEL LLC
3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

+1 646 470 4911