





ALUMINIUM HYDROXIDE NANOPOWDER



Purity
99.9%



Follow us:

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

NS6130-03-304

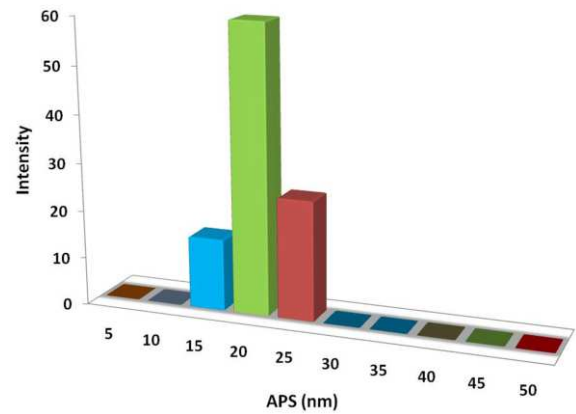
NEXT 

ALUMINIUM HYDROXIDE NANOPOWDER

Aluminium Hydroxide Nanopowder $\text{Al}(\text{OH})_3$ is commonly used as a fire retardant. It naturally occurs as a mineral gibbsite. It has three polymorphs such as nordstrandite, bayerite, and doyleite. This compound is amphoteric in nature i.e. it has both natures acidic and basic. $\text{Al}(\text{OH})_3$ nanoparticles taking much attention currently due to their unique properties and have a wide range of applications, for instance, plastics, glasses, papers, rubbers, and medicines. This compound utilized a flame retardant owing to temperature rises $\text{Al}(\text{OH})_3$ represents endothermic decomposition and also absorbs energy., this compound supply heat insulation by reflecting when heat accumulates on its surface. $\text{Al}(\text{OH})_3$ is utilized in thermo sets polymers due to its low cost and non-toxicity.it is synthesized by distinct methods such as hydrothermal, precipitation, pyrolysis, sol-gel and hot-air spray. It is also used to synthesize the alumina and alumina-derived ceramics. It is also employed as an antacid medicine in humans and in animals because it reacts with the excess acid in the stomach. Moreover, it also deals with some other problems such as constipation, ulcers, etc.

QuickFACTS

Product	:	Aluminium Hydroxide Nanopowder
Stock No	:	NS6130-03-304
CAS	:	21645-51-2
Color	:	White
Form	:	Powder
Symbol	:	$\text{Al}(\text{OH})_3$



ADDITIONAL POWDER CHARACTERISTICS

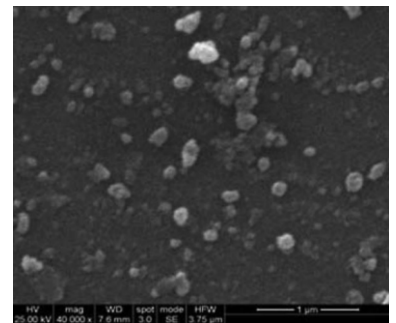
Stock No.	Purity	APS
NS6130-03-304	99.9%	20nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
$\text{Al}(\text{OH})_3$	78.00 g/mol	2.42 g/cm ³	300 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
Aluminium Hydroxide Nanopowder	$\text{Al}(\text{OH})_3$ 99.9%	Other Metal 1000ppm



APPLICATIONS

- > Ceramics
- > Adsorbents
- > Photo Catalysts
- > Composite materials
- > Plastics
- > Rubbers
- > Papers
- > Glasses and medicines



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