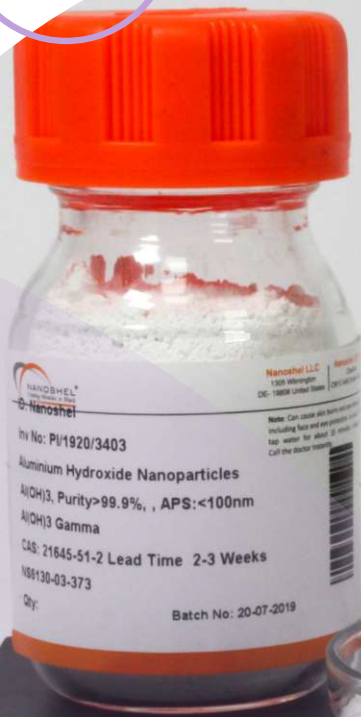


ALUMINIUM HYDROXIDE NANOPOWDER



Purity
99.9%



NS6130-03-373

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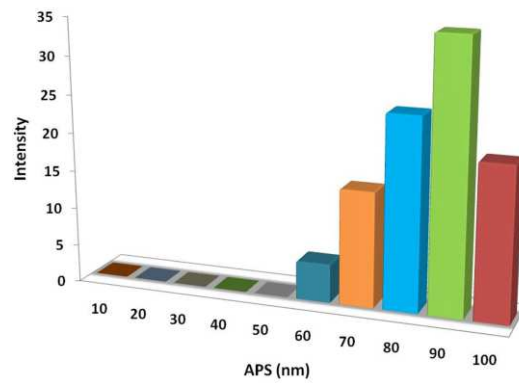
ALUMINIUM HYDROXIDE NANOPOWDER

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	:	NS6130-03-373
CAS	:	21645-51-2
Color	:	White
Form	:	Powder
Symbol	:	$\text{Al}(\text{OH})_3$
Group	:	Aluminium 3/Oxygen 16



ADDITIONAL POWDER CHARACTERISTICS

Stock No.	Purity	APS
NS6130-03-373	99.9%	<100nm

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

APPLICATIONS

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



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

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