

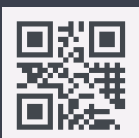
# Antimony

## NANOPARTICLES

### Quick FACTS

- ✓ Product : Antimony Nanoparticles
- ✓ Stock No : NS6130-12-000795
- ✓ CAS : 1309-64-4
- ✓ Color : Grey
- ✓ Form : Powder

Antimony nanoparticles have been synthesized by using distinct methods such as electrodeposition, solvothermal, and gas-evaporation method,  $\Gamma$ -ray radiation as well as a self-assembly technique. Antimony (III) has mainly been utilized as refining or fining agent for glass melts. These nanoparticles are useful as a flame retardant synergist using it together with halogenated compounds in plastics, sealants, rubbers, paints, adhesives, and textile back coatings. Oxides of antimony nanoparticles also exhibits a remarkable catalytic property in poly (ethylene terephthalate) (PET) and organic synthesis industries. In the sensing field, Oxides of antimony nanoparticles are found to possess high proton conductivity properties, making it potentially useful as a promising humidity sensing material. Colloidal antimony is employed as optical materials because of their high refractive index and high abrasive resistance.



CE ISO 9001:2015  
CERTIFIED COMPANY

ISO: 13485:2016/20ZICE4588M  
CE: 20ZICE4589C

    /nanoshel

www.nanoshel.com | sales@nanoshel.com

Tel: +91 9779550077,9779238252

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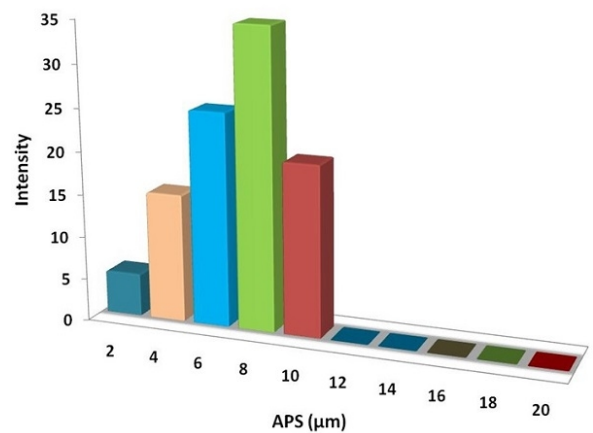
## NANOPARTICLES

### Applications

- ✓ Anti-friction alloys
- ✓ Glass
- ✓ Batteries
- ✓ Small arms and tracer bullets
- ✓ Cable sheathing
- ✓ Paints and ceramic enamels
- ✓ Flame-proofing compounds
- ✓ Pottery glazes

### Packing Sizes Available

25Gms, 50Gms, 100Gms,  
500Gms & Bulk Orders



### Technical SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point	Boiling Point
Sb	121.75g/mol	6.6 g/cm <sup>3</sup>	630.74 °C	1950 °C

#### INTELLIGENT MATERIALS PVT LTD

Derabassi-140507 Punjab-India  
[www.nanoshel.com](http://www.nanoshel.com) | [sales@nanoshel.com](mailto:sales@nanoshel.com)  
 +91 9779 550077, 9779238252  
 Company's GSTIN: 03AABCI9814Q1Z6

#### NANOSHEL UK LIMITED.

Chapel House  
 Chapel St Cheshire  
 CW12 4AB United Kingdom  
 +44(0)74105488, +442031375187

#### NANOSHEL LLC.

3422 old Capitol Suit  
 1305 Wilmington DE - 19808  
 United States  
 +1646 470 4911



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