

Aluminum Hydroxide Nanoparticles (Al(OH)₃, 99.9%, 10-20 nm, Hydrophilic)

Stock #: US3026

Please click [here](#) for price information.

Details:

Aluminum Hydroxide Nanopowder, Al(OH)₃

Color: white

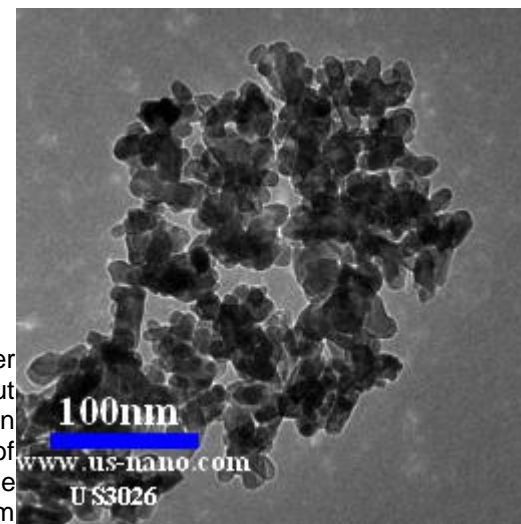
APS: 10-20nm

Purity: 99.9%

SSA: ~650 m²/g

Application:

Use as a fire retardant--Aluminium hydroxide also finds use as a fire retardant filler for polymer applications in a similar way to magnesium hydroxide and hydromagnesite. It decomposes at about 180 °C, absorbing a considerable amount of heat in the process and giving off water vapour. In addition to behaving as a fire retardant, it is very effective as a smoke suppressant in a wide range of polymers, most especially in polyesters, acrylics, ethylene vinyl acetate, epoxies, PVC, rubber; The major other uses of aluminium hydroxide is as a feedstock for the manufacture of other aluminium compounds: specialty calcined aluminas, aluminium sulfate, polyaluminium chloride, aluminium chloride, zeolites, sodium aluminate, activated alumina, aluminium nitrate. Annual production is some 100 million tonnes, over 90% of which is converted to aluminium oxide (alumina) which is used in the manufacture of aluminium metal; Pharmacologically, this compound is used as an antacid under names such as Alu-Cap, Aludrox or Pepsamar. The hydroxide reacts with excess acid in the stomach, reducing its acidity.



[MSDS](#)

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