

Technical Data Sheet

Nano alpha Alumina

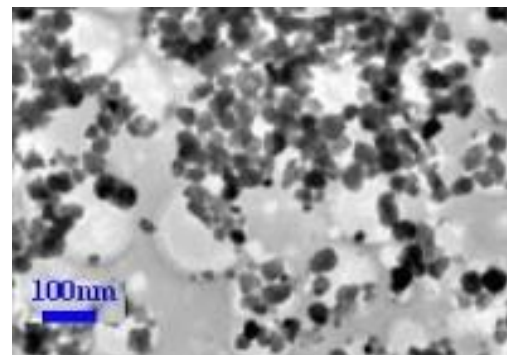
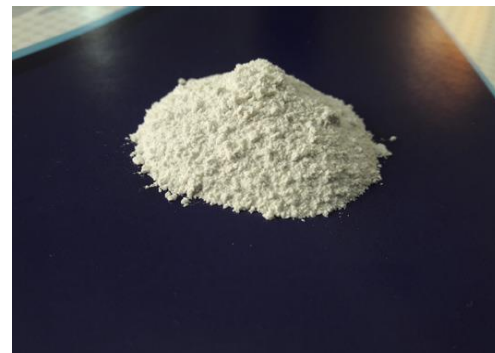
Characterization and Description

Product Identification	
Product Name	Nano alpha Alumina
Chemical Formula	$Al_2O_3(\alpha)$
Intended use	Catalyst support, Cosmetic Filler, Ceramic Materials, refractory products

Physical / Chemical Properties	
Physical state	Powder
Properties & Use	Phase Stability, High Hardness, Materials with High Dimensional Stability
Appearance	White
Odor	None
Al_2O_3 % wt	Min 99
Average particle size (APS)	$20 < 50 < 100$ nm
Product features	Plastic & Polymer, Resin, Refractory Industry, Ceramic Material

Chemical Specification	
Prevailing Phase	$Al_2O_3(\alpha)$

Nano $Al_2O_3(\alpha)$



TEM image of Nano - Silver

Product Information

1. Appearance Form (Type): powder
2. Size: ~50 nm
3. Color: White
- 4 surface area: $50-120 \text{ m}^2/\text{gr}$
5. Particle Morphology: Nearly Spherical
6. Formula: $Al_2O_3(\alpha)$
7. Al_2O_3 % wt: Min 99

Application Categories

1. Academic Research
2. Chemical R&D
3. plastic and polymer industry
4. Ceramic Materials
5. refractory products
6. Catalyst Support



Application

Nano alpha Alumina:

1. transparent ceramics: high-pressure sodium lamps, EP-ROM window;
2. cosmetic filler;
3. single crystal, ruby, sapphire, sapphire, yttrium aluminum garnet;
4. high- strength aluminum oxide ceramic, packaging materials, cutting tools, high purity crucible, winding axle, bombarding the target, furnace tubes;
5. polishing materials, glass products, metal products, semiconductor materials, plastic, tape, grinding belt;
6. paint, rubber, plastic wear-resistant reinforcement, advanced waterproof material;
7. vapor deposition materials, fluorescent materials, special glass, composite materials and resins;
8. catalyst, catalyst carrier, analytical reagent;
9. aerospace aircraft wing leading edge.

Mixing

Instructions: Depending on your application and industry varies between % 1 to % 5 wt.

