

Titanium Dioxide

1. Basic Information

Product Name	Titanium Dioxide (TiO ₂) Nanopowder / Nanoparticles, Anatase
Molecular Formula	TiO ₂
CAS No.	1317-70-0
EINECS	215-280-1
Purity	99.8%
Size	50 nm

2. Specifications

Characteristics	Specification
Appearance (Colour)	White
Appearance (Form)	Powder
Specific Surface Area (m ² /g)	60 - 90
Loss on Dry 105°C, 2h (%)	≤1.0
Sulphated Assay	≤1.5
pH	6 - 8
Elemental Analysis	
Iron (%)	≤0.005
As (ppm)	≤5
Pb (ppm)	≤10

3. Additional Information

Applications

Titanium oxide nanoparticles have wide applications in chemical industry. It is used in products such as cosmetics, beauty and whitening cream, vanishing cream, skin protecting cream, natural white moisture protection cream, powder make-up, and other cosmetic cream products. It has applications in coatings such as coating for plastics, foods packing material, and in printing inks. It has also applications in photocatalysts, UV-resistant material, antibacterial materials, sewage treatment, and self-cleaning glass and ceramics. Titanium oxide nanoparticle is used in metallurgical, paper, and astronautics industry. It is used for improving the impressionability and opacity of papers, and in producing titanium, ferrotitanium alloy, carbide alloys.