

## Nanotian AQ50

**Product Name:** Nano Titanium Dioxide

**INCI Name:** Titanium Dioxide (CI 77891)

**CAS#:** 13463-67-7

Nano rutile titanium dioxide, a white fluffy powder synthesized by chemical liquid deposition method. It has features of small particles, uniform particle size, high refractive index and shows superior transparent blue after dispersion. With surface modification of silica, it also has excellent dispersity. For excellent anti-ultraviolet radiation function and transparency, it is suitable for products that are required for weatherability, anti-aging, antibacterial and transparency.

### Product Parameters:

Appearance: (visual inspection)	White powder
Crystal type:	Rutile
Primary particle size (nm):	50
Surface treatment agent:	Silica
Loss on drying (%):	≤2.00
Bulk Density (g/cm <sup>3</sup> ):	0.16-0.20
Dry whiteness (%):	≥90.00
Dispersibility: (In solvent oil/water)	Dispersed in oil and water (water prefers)

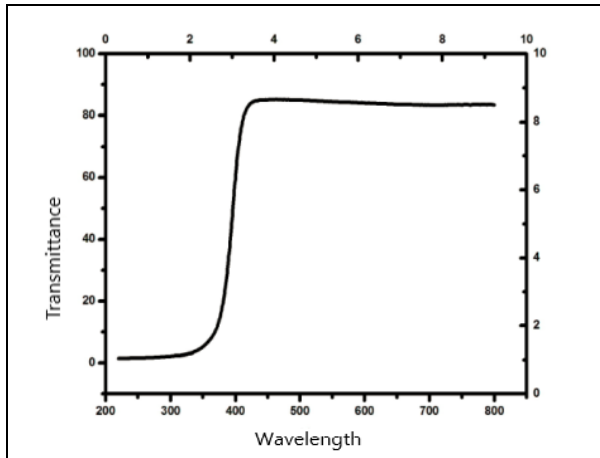
### Product Features and Applications:

#### Features:

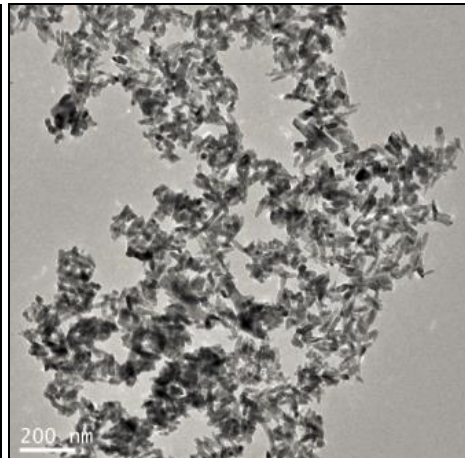
- 1) Strong UV absorption and shielding ability, the addition of 2-3% can multiply the anti-aging and sunproof ability.
- 2) Enhance the bacterial and mildew resistance of coating.
- 3) Blue light and transparency, flip-flop effect.
- 4) Increase the hardness, adhesion, abrasion resistance, and scratch resistance of coating.

## Applications:

Mainly used in coating, painting, automobile, ink, textile, rubber and plastics, and ceramics for strong UV absorption and barrier ability. It can also be applied to weather resistant, mildew proof, bacteriostasis, anti-aging, and new energy storage materials.



Transmittance Spectrum



SEM Image

## Storage Information:

Manufacture area:	China
Packaging:	15 kg/ barrel
Storage:	Sealed, storage in a cool and dry place away from light
Shelf life:	36 months

Date: 2020/12/18