

Nanotian S50

Product Name: Lipophilic Nano Titanium Dioxide

INCI Name: Titanium Dioxide (CI 77891)

CAS#: 13463-67-7

Nano rutile titanium dioxide, with organic surface modification such as stearic acid, has an improvement of dispersibility in solvent-based products. The core is coated with aluminum hydroxide, which greatly improves its photostability, transparency and gloss, while inhibits its photocatalysis activity. Its particles are 20 to 50 nanometer long and thin particles with uniform size. For outstanding UVB shielding ability, excellent transparency and pure blue hue, it is suitable for products required for weatherability, anti-aging, antibacterial, blue light and transparency.

Product Parameters:

Appearance: (visual inspection)	White powder
Crystal type:	Rutile
Primary particle size (nm):	50
TiO ₂ content (%)	85
Surface treatment agent:	Aluminium hydroxide, stearic acid
Loss on drying (%):	≤2.00
Dry whiteness (%):	≥90.00
Dispersibility: (Powder dispersed in solvent oil/water)	Easily dispersed in oil, difficult in water

Product Features and Applications:

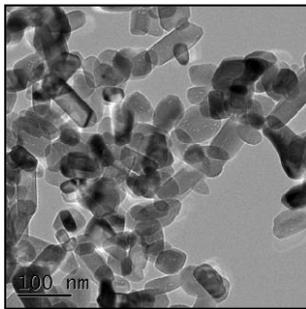
Features:

- 1) Strong UV absorption and shielding ability, the addition of 2-3% can multiply the weatherproof and sunproof ability.
- 2) Enhance the bacterial and mildew resistance of coating.
- 3) Excellent transparency.
- 4) Superior blue hue, suitable for coating and silica gel with blue lustre.

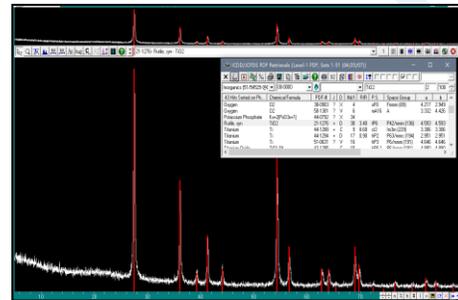
- 5) Advanced inorganic coating technology and organic modification technology, ensure stability and promote dispersion.

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.



SEM Image



XRD Patterns (Rutile TiO₂)

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: 2021/1/12