

JTR-N102

Product Information

Product Description

JTR-N102 is a white fluffy powder. Its main component is titanium dioxide, which is inorganically coated with one or both of hydrated alumina and hydrated silica. The lipophilic grade (JTR-N102Y) is subjected to organic treatment (customizable according to customer requirements).

The product exhibits two morphologies: needle-like and ellipsoidal. Articles manufactured using this product as a raw or auxiliary material demonstrate excellent resistance to photoaging and weathering.

Table 1

Analysis and Physical Properties of JTR-N102/N102Y

Property	JTR-N102 Value	JTR-N102Y Value
Crystal Type	Rutile	Rutile
Specific Surface Area	≈50	≈50
TiO ₂ , wt%	85~95	70~80
pH	6.0~9.0	6.0~9.0
Inorganic surface coating species	Al(OH) ₃	SiO ₂
Organic surface coating species	—	Yes

Note: All values are typical unless otherwise specified

Key Features

- Easy to disperse
- High UV resistant performance

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Recommended application

JTR-N102 is suitable for:

- various sunblock creams, sunblock water, sunscreen lotion etc.

Suggestions for Use

First, JTR-N102 is pulped in a suitable dispersion medium and fully dispersed to obtain a dispersion. Then, the obtained dispersion is added to the system according to the formulation and processing method of the target product. Preferred dispersion method: pulping concentration 10%~30%, cyclic grinding twice in a sand mill, the sand milling medium being 0.8~1.0mm zirconia beads, and the zirconia bead filling rate being approximately 80%.

Addition Suggestions

The quality percentage of JTR-N102/102Y in target products was 15%~20%.

Shipping Containers

JTR-N102 is available in 10 kg box.

Product Storage

The shelf life of JTR-N102 is indefinite as long as the material is kept from direct contact with moisture. For further information about this grade or to request a sample, please see the JIUTA website.