

# JTR-N103

## Product Information

### Product Description

The appearance of JTR-N103 was the white fluffy powder, which was coated with Hydrated Alumina or/and Hydrated Zirconia, and the main chemical constituents are titanium dioxide. The paint film not only had good light resistance, but also had angle-dependent optical effect, which made from JTR-N103 and aluminum paint and other materials.

**Table 1**

Analysis and Physical Properties of JTR-N103/N103B

Property	JTR-N103 Value	JTR-N103B Value
Crystal Type	Rutile	Rutile
Specific Surface Area	≈70	≈30
TiO <sub>2</sub> , wt%	85~95	85~95
pH	6.0~9.0	6.0~9.0
Inorganic surface coating species	Al(OH) <sub>3</sub> +ZrO <sub>2</sub>	Al(OH) <sub>3</sub> +ZrO <sub>2</sub>
angle-dependent optical effect	26.5~31.5	34~41
Inorganic impurity content	Meeting the requirements of EU 2009/48/EC and EU2017/738-EN 71-3:2013+A2:2017	
Organic impurity content	Meeting 8 requirements in RoHS directive of 2011/65/EU and (EU) 2015/863	

Note: All values are typical unless otherwise specified

### Key Features

- Angle-dependent optical effect
- Light resistance

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### Recommended application

JTR-N103 is suitable for:

High-end outdoor coatings such as

- Automotive metallic paint,
- Exterior wall coatings,
- Wood coatings,
- Aircraft skin coatings.

### Suggestions for Use

First, the mixture consisting of resin, dispersant, solvent, and nano-titanium dioxide is thoroughly dispersed to obtain a gem white (frost blue) color paste. Then, the obtained color paste is added to the system according to the formulation and processing method of the target product. Preferred dispersion method: pulp concentration 10%~20%, 8 cycles of sand milling, 1~2mm zirconia beads as the milling media, and a sand mill filling rate of approximately 80%.

### Recommended Additions

The recommended addition amount of JTR-N103 in metallic paint products is 3%~ 10%.

### Shipping Containers

JTR-N103 is available in 10 kg box.

### Product Storage

The shelf life of JTR-N103 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.

 Titanium Dioxide  
TiO<sub>2</sub>  
www.shjiuta.com