

Titanium Dioxide R-18

Version 2026-10-22b · Revision 2026-10-22

C.I. Name	Pigment White 6	C.I. No.	77891
CAS No.	13463-67-7	Chemical Group	Rutile Titanium Dioxide (TiO ₂)

Product Description

Titanium Dioxide R-18 is a coatings and ink grade rutile TiO₂ manufactured by sulfate process. It is designed for optimal whiteness and gloss. It is coated with zirconia, alumina and special organic treatment for high level durability and weather ability.

Physical Data

Density (g/cm ³)	4.1
Form of supply	White Powder
Oil absorption (g/100 g)	≤18
Moisture (%)	0.50
pH value	6.0~9.0
Content	≥93.5% TiO ₂
Undertone (SCX)	±0.2
Tint strength	±50 (TCS)
Resistivity	90Ω·m
Surface treatment	Al ₂ O ₃ , ZrO ₂ + organic
EC No.	236-675-5
Production process	Sulfate Process

Chemical Resistance

Acid	5
Alkali	5
Alcohol	5
Ester	5
Ketone	5
Soap	5
Water	5
Migration	5

Applications

Coatings	Plastics	Inks
Automotive Coating ●	PVC ○	Solvent based ●
Industrial Coating ●	PE/PP/PO ○	Water based ●
Decorative Coating ●	ABS ○	UV / EB ●
Coil Coating ●	PS ○	Inkjet ●
Wood Coating ●	PA ○	
Powder Coating ○	Rubber ○	

● Recommended ○ Limited suitability – Not recommended

Product Specification

Test Property	Specification	Test Method
ΔE	≤1.0	AFTM-P 2.1
Colour strength	100±5%	AFTM-P 2.1

All the information above is based on data obtained at laboratory and is not to be used for certifying the suitability of the product. Users are advised to test the product in their own system before purchase.

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Packaging, Shipping & Storage

Titanium Dioxide R-18 is supplied as white powder. The product is packed in 25 kg paper bag and shipped on pallets of 1000 kg. Store under normal temperatures, dry and protected from weather. Shelf life: 5 years from manufacturing date.

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