

Grade: R-920

## TITANIUM DIOXIDE

### ANALYTIC CHARACTERISTICS

- Appearance** White powder material
- Application** White pigment with high brightness is widely used for production of solvent - and water-based paints and varnishes In order to increase light and weather resistance the pigment is surface treated with zirconium and aluminium hydroxides , and suitable organic surface modifier to improve dispersibility in various dispersion systems. R-920 based coatings show long term gloss retention and reduced chalking.
- Storgare** To be stored in a closed warehouse for 12 months from the date of manufacture.

### PRODUCT TREATMENT

Surface treatment with aluminum, zirconium compounds and organic matter

Zirconium in terms of $ZrO_2$	0,4%
Aluminum hydroxide in terms of $Al_2O_3$	3%
Organic compounds	0.35%

### PHYSICAL AND CHEMICAL PROPERTIES

TiO <sub>2</sub> mass, %	92
Rutile Content, %	98
Volatile Matters, %	0,3
Water-soluble matters, %	0,1
pH (aqueous slurry)	7,2
Residue on sieve (45 $\mu$ m [325 mesh]), % (by mass)	0,003
Tint reducing power, arb. unit	2100
Opacity, g/m <sup>2</sup>	25
Dispersibility $\mu$ m	13
Whiteness, arb. units	97.1
Oil Absorption, g/100g of pigments	20
Refractive Index	2,7
Average bulk density (tamped) (kg/m <sup>3</sup> )	800
Average crystal size ( $\mu$ m)	
Durability	
L*a*b* Color Scale	
L* (CIELAB)2 a* (CIELAB)2 b* (CIELAB)2	

3860  
0,25-0,35 Good  
97,3 98,0 -0,4 -0,6 1,3 1,9

DISCLAIMER:  
The information contained in this datasheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about the product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RAR RESIN Technical Service Department.

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**Note 1:** This is general information aimed at helping prospective consumers make informed choices about using Tio2R- 920 grade, based on its properties described above. This information is based on routine tests for quality control of Titanium Dioxide made by our Company, as well as on our knowledge and our partners' experience at the application of TiO2. We cannot, however, guarantee absolute accuracy or completeness of the information shown here. We also do not warrant that Tio2 R- 920 grade will meet your specific application needs. In order to fully evaluate suitability of Tio2 R- 920 grade for your applications, you may need to test the Product under specific conditions. We will be happy to provide test samples on request.

**Note 2:** Method of determination: powder tablet.

## HEALTH AND SAFETY INFORMATION:

Toxicity	Non-toxic, hazard class 4
Fire and explosion danger	Fire- and explosion-proof
Odor	None
Safety measures	The use of personal protective equipment is strongly recommended. Skin protective pastes and barrier creams are applied to protect exposed skin surfaces.

## PACKAGE

Package	Net Weight
Paper or polypropylene bag	25 kgs
Paper or polypropylene bag (palletized)	1000 kgs (40 bags*25kg)
Big-Bag Container	1000 kgs

## TRANSPORTATION

Type of transport	By truck, by railway , by ship
Terms of delivery	DAF, FOB, CIF and others
Shipment	According to international shipment regulations this product is not classified as hazardous.

## ENVIRONMENT PROTECTING

Waste Disposal	This product is not hazardous for disposal in industrial or sanitary waste disposal landfill. Attention should however be paid to local waste disposal regulations.
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