

**TECHNICAL DATA SHEET**

Effective date: 04.2019

## Titanium dioxide

**INFORMATION ON SUBSTANCE / MIXTURE**

INCI	Titanium dioxide
Manufacturing process	Produced by the sulphate process
Description	Anatase pigment
Color index	Pigment White 6 (77891)

**TECHNICAL DATA****Physical parameters**

Appearance	Solid, powder
Color	White
Odor	Odorless
Surface treatment	None
TiO <sub>2</sub> content	> 99%
Standard classification	A 1
ASTM D 476	Type I
Density	3.8 g/cm <sup>3</sup>
Oil absorption	19 g/100 g pigment
Acid stability	Excellent
Alkali stability	Good
Volatile matter (105°C)	Max 0,5 %

**Chemical parameters**

<b>Heavy metals</b>	<b>ppm</b>
Lead	0 - 10
Arsenic	0 - 1
Mercury	0 - 1
Chromium	0 - 50
Nickel	0 - 50
Zinc	0 - 50
Copper	0 - 50

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Barium	0 - 50
Cadmium	0 - 1
Antimony	0 - 50
Particle Size Distribution	Median, mass based d50w : 0.36 µm Median, number based d50n : 0.26 µm Mode, mass based : 0.34 µm    Distribution Width s : 0.16 Fraction > 0.6 µm : 13.03 %    Fraction < 0.2 µm : 3.70 %

**TRANSPORT, STORAGE and SHELF LIFE**

Storage conditions	Store in closed containers, keep dry and avoid humidity.
Shelf Life	5 years, in closed packaging and the recommended conditions.
Custom tariff	-

**LEGISLATION**

Certification	-
EU - 1223/2009/EC <sup>[1]</sup>	Annex IV, Part 1 : CI 77891 *
EU - 231/2012/EU <sup>[1]</sup>	E 171
USA	Titanium dioxide **
JAPAN	Titanium dioxide
CHINA	CI 77891 *
Food grade	Foodstuff coloring agent E171
EINECS	236-675-5
CAS	13463-67-7
REACH Registration No.	01-2119489379-17-xxxx

\* Product type, body parts : allowed in all cosmetics. \*\* exempt from certification ; for coloring cosmetics, including cosmetics applied to the area of the eye. [1] including amendments

**DISCLAIMER**

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