

TITANIUM DIOXIDE 3100
PHARM / FOOD / COSMETIC GRADE
Technical Data Sheet

GENERAL INFORMATION

CAS No. 13463-67-7

Molecular weight: 79.88

Molecular formula: TiO₂

Color Index: 77891

Color Name: Pigment White 6

EINECS NO.: 2366755

Titanium Dioxide 3100 is an uncoated anatase Titanium Dioxide easy dispersed pigment, pigmentation of foodstuffs, cosmetics, pharmaceuticals, etc.

APPLICATIONS

Pharmaceuticals: Coloring agent for capsules, films, tablets & coated pills, medical sticky tapes

Foodstuffs: colorant for sugar product, candy, icings, chewing gum, coffee whitener; tooth pastes; low- & no-fat products such as coffee creamers, salad dressings, cheese, confections & baked goods.

Cosmetics: water dispersable grade, water based foundations

PRODUCT PROPERTIES

Property	Typical Value	3100 Typical
Appearance	White powder	White powder
Particle size , μm	0.4~0.6	0.45
Bulk density, g/ cm^3	0.55	0.55
Oil absorption, g/ 100g	19-22	20
Surface area, m^2/g	9-10	9
Whiteness	98 min	98.2
Sieve residue (45 μm) , %	0.05 max	0.03%

PRODUCT SPECIFICATION

Property	Specification	3100 Typical
TiO ₂ content, %	99.0 min	99.13
Loss on drying, %	0.50 max	0.15
Loss on ignition, %	0.50 max	0.21

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Water soluble substance, %	0.25 max	0.21
Acid soluble substance, %	0.50 max	0.38
Al ₂ O ₃ / SiO ₂ ,%	2.0% max	<0.02%
Antimony, ppm	2 max	0.02
Arsenic, ppm	1 max	0.45
Lead, ppm	10 max	7.60
Mercury, ppm	1 max	0.01
Zinc, ppm	50 max	4.80
Cadmium, ppm	1 max	0.12
Iron, ppm	200 max	20.85

TOTAL VIABLE AEROBIC COUNT TEST

Bacteria, cfu/g	100 max	Conforms
Moulds and Yeasts, cfu/g	100 max	Conforms

SPECIFIED MICROBIAL TEST

Enterobacteriaceae	Not detected	Conforms
Escherichia Coli	Not detected	Conforms
Salmonella	Not detected	Conforms
Pseudomonas Aeruginosa	Not detected	Conforms
Staphylococcus Aureus	Not detected	Conforms
Clostridia	Not detected	Conforms
Candida albicans	Not detected	Conforms

PACKAGE & STORAGE

Package: 25kgs craft paper bag with pallets

Storage: Keep tightly sealed and stored in a cool, dry and well-ventilated area.

CONTACT

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NOTE

The above information is provided as guidelines only. It is important that the customer evaluate any product in their own resin system to determine suitability.