

PRODUCT DATA SHEET:**Titanium Dioxide - Purified**

Life Sciences

Titanium Dioxide - 3328 FCC / USP / EP / BC

The non-toxic and inert nature of Titanium Dioxide leads to its use as a colorant and opacifier in the food, drug and cosmetic industries. Purified grades of Titanium Dioxide are used for the following applications.

Pharmaceuticals - Used as a colorant for ointments, capsules, lotions, creams and various dosage forms.

Cosmetics - Used as a colorant for creams, lotions, powders, eye shadows, lip sticks and other cosmetic preparations.

Food - Use is limited to a maximum of 1.0% in coloring foods without standards of identity. It is used as a colorant and opacifier in foods, beverages, candies, pet and animal foods, etc

TYPICAL PHYSICAL PROPERTIES	
Median Particle Size (micron)	0.3
Max. Particle Size (micron)	1.0
Alum Ox & Silicon Dioxide (max %)	2.0
Dry Brightness (min)	96
Specific Gravity	3.90
Regulatory Certifications (pg 2)	a, b, c, d, e

TYPICAL CHEMICAL PROPERTIES	
TiO ₂ - Titanium Dioxide (%)	99.0 - 100.5
Pb - Lead (max ppm)	10
As - Arsenic (max ppm)	1
Hg - Mercury (max ppm)	1
Sb - Antimony (max ppm)	2
Water Solubles (max %)	0.25
Acid Solubles (max %)	0.5
Loss on Ignition (max %)	0.5
Moisture (max %)	0.5

BSI Code: 3328

INCI: Titanium Dioxide

C.A.S. Number: 13463-67-7

Monographs: FCC / USP / EP

Certifications: Kosher

Crystal Structure: Anatase

Dispersion Type: Water-Dispersible

Regulatory Certifications: See Page 2

Storage: Store in cool location, keep away from heat and direct sunlight. Keep container sealed.

Handling Precautions: Please refer to the Titanium Dioxide 3328 FCC / USP / EP / BC Safety Data Sheet.

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Titanium Dioxide - 3328 FCC / USP / EP / BC**Regulatory Certification Information**

- a** Microbial Limits: Total Count < 100 cfu/gram. Combined Count Yeast and Mold < 50 cfu/gram. Absence of e-Coli, Salmonella, Staph Aureus and Pseudomonas Aeruginosa. Meets Requirements.
 - b** Meets the requirements of U.S. Title 21 CFR 73.575 (Foods) and the current Food Chemicals Codex monograph.
 - c** Meets the requirements of U.S. Title 21 CFR 73.575 (Foods), 73.1575 (Drugs) and 73.2575 (Cosmetics).
 - d** Meets the requirements for titanium dioxide in the United States Pharmacopeia, Food Chemicals Codex, British Pharmacopeia, European Pharmacopeia, United Nations WHO/FAO Specifications and other compendial publications.
 - e** Listed in the EINECS and TSCA inventories and the Canadian D.S.L.
- * Requirement for Food Chemicals Codex, Current Edition.

Please Note - Regulatory Certification Information listed above does not apply to all grades of Titanium Dioxide listed in regulatory certification key on page 1.

While the data presented in this information sheet reflects the present state of our knowledge and is believed to be accurate and reliable, it is provided without liability as a courtesy only and is to be used and relied upon at the reader's sole risk. Readers should make their own determination as to the suitability of any product for a particular use. We recommend that readers conduct their own product trials before using any particular product. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties rights. The recommendations contained herein do not constitute a warranty, either express or implied, as to the fitness or suitability of any product for a particular purpose. For more information and assistance, please contact Technical Services at BSL_regulatory_dept@brenntag.com

Brenntag Specialties, LLC / 1 Cragwood Rd, Suite 302, South Plainfield, NJ 07080 / 800.732.0562