

## PRODUCT DATA SHEET:

### Titanium Dioxide - Purified



Life Sciences

#### Titanium Dioxide - 325 FCC / USP / EP / BP / IRD (Hombitan FF-Pharma)

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)	0.4
Max. Particle Size (micron)	1.0
Alum Ox & Silicon Dioxide (max %)	2.0
BET Surface Area (m <sup>2</sup> /g)	9.0
Refractive Index	2.5
Specific Gravity	3.90
Regulatory Certifications (pg 2)	a, b, c, d, e

TYPICAL CHEMICAL PROPERTIES	
TiO <sub>2</sub> - Titanium Dioxide (%)	99.0 - 100.5
Pb - Lead HCl Soluble (max ppm)	10
AS - Arsenic HCl Soluble (max ppm)	1
Hg - Mercury (max ppm)	1
SB - Antimony HCl Soluble (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:** 325 IRD - Hombitan FF Pharma

**INCI:** Titanium Dioxide

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

**Monographs:** FCC / USP / EP / BP

**Certifications:** Kosher

**Crystal Structure:** Anatase

**Dispersion Type:** Oil-Dispersible

**BC Process:** Dry Heat  
Gamma Irradiated

**Regulatory Certifications:** See Page 2

**VENATOR**

Authorized Distributor

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

**Handling Precautions:** Please refer to the Titanium Dioxide 325 IRD FCC / USP / EP / BP Safety Data Sheet.

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**Titanium Dioxide - 325 FCC / USP / EP / BP / IRD (Hombitan FF-Pharma)****Regulatory Certification Information****a** Microbial Limits:

Total Aerobic Microbial Count (TAMC) &lt;100 cfu/g

Total Yeast and Molds Count (TYMC) &lt;100 cfu/g

**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.

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