

Updated: 17-Apr-2026

**Certificate of Analysis**  
(Representative Sample Certificate)

**Product Name:** Titanium Dioxide  
**INCI Name:** Titanium dioxide (CI 77891)  
**CAS Number:** 13463-67-7  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Standard Shelf Life:** 60 Months from production date

Characteristics	Specifications	Test Value
Identification (DIN EN 13925-3)	Conforms to specifications	Pass
Assay, Titanium Dioxide (TiO <sub>2</sub> ) (DIN EN ISO 591-1)	98.0 - 100.5%	99.4%
Assay, Titanium Dioxide (TiO <sub>2</sub> ) Calculated, to dry substance (DIN EN ISO 591-1)	99.0 - 100.5%	99.7%
Appearance (Ph. Eur.)	White to almost white powder	Pass
Solubility	Meets specification	EU No. 231/2012
Clarity/Color of Solution (Ph. Eur.)	Complies	Complies
Acidity/Alkalinity (Ph. Eur.)	≤1.0ml	<1.0ml
Water Soluble Substances (USP)	≤0.25%	0.21%
Acid Soluble Substances (HCl 0.5 mol/l) (USP)	≤0.5%	0.33%
Loss on Drying (105 °C, 3h) (USP)	≤0.5%	0.26%
Loss on Ignition (800 °C) (USP)	≤0.5%	0.04%
Lead (Pb), HCl soluble (FDA §73.575)	≤5.0 mg/kg	1.1 mg/kg
Arsenic (As), HCl soluble (FDA §73.575)	≤1.0 mg/kg	<0.1 mg/kg
Antimony (Sb), HCl soluble (FDA §73.575)	≤2.0 mg/kg	<0.1 mg/kg
Barium (Ba), total (USP <233>)	≤20.0 mg/kg	1.5 mg/kg
Arsenic, ppm (As), total (USP <233>)	≤1.0 mg/kg	<0.1 mg/kg
Iron (Fe), total (USP <233>)	≤200.0 mg/kg	18.2 mg/kg
Antimony (Sb), total	≤2.0 mg/kg	0.1 mg/kg

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy themselves as to the suitability & completeness of such information for their own particular use.

(USP <233>)		
Lead (Pb), total (USP <233>)	≤5 mg/kg	2.4 mg/kg
Mercury (Hg), total (FCC)	≤1 mg/kg	<0.1 mg/kg
Cadmium (Cd), HCl (EU no. 231/2012)	≤0.5 mg/kg	<0.1 mg/kg
Mercury (Hg), HCL Soluble (EU no. 231/2012)	≤1 mg/kg	<0.1 mg/kg
Aluminum Oxide and/or Silicon Dioxide (DIN 51418)	≤2.0%	0.04%
PLV Brightness (DIN 53163)	≥98.4	98.8
PLV Tone b (DIN 53163)	0.00 - 1.00	00.77
Rutile Content (DIN EN 13925-3)	≤1.5%	0.1%
Sieve Residue 40µm in Water (ISO 787-7)	≤0.020%	<0.020
pH Value in 10% Suspension (ISO 787-9)	7.0 - 8.5	7.0
Cadmium (Cd), total (USP <233>)	≤1 mg/kg	<0.1 mg/kg
Chromium (Cr) ,total (USP <233>)	≤3 mg/kg	1.1 mg/kg
Zinc (Zn), total (USP <233>)	≤50 mg/kg	<2.0 mg/kg
Nickle (Ni), total (USP <233>)	Info only	0.2 mg/kg
Cobalt (Co), total (USP <233>)	Info only	<0.1 mg/kg
Copper (Cu), total (USP <233>)	Info only	<2.0 mg/kg
Selenium (Se), total (USP <233>)	Info only	<0.5 mg/kg
Vanadium (V), total (USP <233>)	Info only	2.3 mg/kg

The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed. All data are as per our supplier.

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