



大连汉德姆精细化学品有限公司

DALIAN HANDOM CHEMICALS CO.,LTD.

Certificate of Analysis

Product Name: Cosmetic Grade Titanium Dioxide

CAS No.: 13463-67-7

Crystal Form: Rutile

Batch No.: HDC20230315

Retest Date: Mar 14th, 2025

Batch Quantity: 10000kg

Chemical Formula: TiO₂

EINECS No.: 236-675-5

CI No.: 77891

Manufacturing Date: Mar 15th, 2023

Report Date: Mar 18th, 2023

Packaging: 25kg/Paper Bag

FUNCTIONAL USE: Colour Shading, UV Protection, Pigment Toning, Whitening etc.

Test Item	Specification	Test Result
Appearance	White powder	Conforms
Odour	Odourless	Conforms
Granulometer(D50)	Not more than 1.0 μm	0.31 μm
Lightening power	Not less than 98%	102%
Assay(TiO ₂ , on the anhydrous basis)	Not less than 93.0%	94.8%
Rutile Content	Not less than 97.0%	97.9%
Loss on Drying(1.0g, 105°C, 3 Hours)	Not more than 0.50%	0.23%
Residue on Ignition(1.0g, 800°C, 1 Hour)	Not more than 0.50%	0.21%
Water Soluble Substance	Not more than 0.30%	0.19%
Acid Soluble Substance	Not more than 0.50%	0.23%
Ferric Salt	Not more than 0.02%	0.01%
Oil Absorption	Not more than 20.0%	19.5%
Whiteness	Not less than 96.0%	98.5%
pH Value(10% Solution)	6.0 ~ 8.0	Conforms
Lead(Pb)	Not more than 10 ppm	<5.0 ppm



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Arsenic(As)		Not more than 2 ppm	<2.0 ppm
Antimony(Sb)		Not more than 10 ppm	<10.0 ppm
Mercury(Hg)		Not more than 1 ppm	<1.0 ppm
Cadmium(Cd)		Not more than 5 ppm	<5.0 ppm
Chromium(Cr)		Not more than 10 ppm	<10.0 ppm
Microorganism	Total plate count	Not more than 1000 CFU/g	Conforms
	Moulds & yeasts	Not more than 100 CFU/g	Conforms
	Escherichia coli	Negative	Not detected

Conclusion: The testing results of this batch of goods are complied with the Enterprise Standard.

Notes: This product has the special function of achieving (hydrophilic/lipophilic) at the same time, and is widely used in cosmetics industry applications: make-up, lipstick, foundation, liquid foundation, color paste, coloring and shading, UV protection, pigment toning, cosmetics and other applications.