

Product - Titanium dioxide Colour (Specifications)

1.0 Description:

Titanium dioxide shall be a white, tasteless, odourless, infusible powder. It is insoluble in water and in organic solvents. It dissolves slowly in hydrofluoric acid and hot concentrated sulphuric acid. Example Symrise titanium dioxide color code 656838.

2.0 Specifications

2.1 Physical parameter:

Sl. No	Parameter	Specification	Reference method	Frequency
1	Appearance	White colour solid fine powder/granules	Visual	Every batch
2	Odour	Odourless	Smell	Every batch

2.2 Chemical parameter:

Sl. No	Parameters	Specification	Test method	Frequency
1	Purity as TiO ₂ , % by mass	Min 99	FCC 10 th Edition, 1291	Every six month
2	Loss on drying at 105 ⁰ C for 3 hours, % by mass	Max 0.5	FCC 10 th Edition, 1409	Every batch
3	Loss on ignition (at 800 ⁰ C), % by mass	Max 0.5	FCC 10 th Edition, 1291	Every batch
4	Acid soluble substances, % by mass	Max 0.35	FCC 10 th Edition, 1291	Every batch
5	Water soluble substances, % by mass	Max 0.25	FCC 10 th Edition, 1291	Every batch
6	Sodium barium compounds, mg/kg	Max 5	IS 8356 : 1993 (E)	Every six month
7	Lead (as Pb), mg/kg	Max 10	FCC 10 th Edition, 1291	Every six month
8	Arsenic (as As), mg/kg	Max 1	FCC 10 th Edition, 1291	Every six month
9	Antimony, mg/kg	Max 2	FCC 10 th Edition, 1291	Every six month
10	Zinc, mg/kg	Max 50	FCC 10 th Edition	Every six month
11	Mercury, mg/kg,	Max 1	FCC 10 th Edition, 1291	Every six month

12	Aluminium oxide and/or silicon dioxide (either singly or combined), % by mass	Max 2	FCC 10 th Edition, 1291	Every six month
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2.3 Microbial
Analysis: N/A

2.4 Sensory analysis:

Sl. No	Parameter	Specification	Reference method	Frequency
1	Appearance	White colour solid fine powder/granules	Visual	Every batch
2	Odour	Odourless	Smell	Every batch

3.0 Allergens
: N/A

4.0 Any specific parameter:
N/A

5.0 Certificate of analysis:
COA will be as per specification

6.0 Label Identification:

Label should contain detailed information on the following.

Material name

Chemical name of the colour;

Colour index number;

Names of major dye intermediates present;

Source of manufacture;

Any other requirements as specified under the Standards on Weights and Measures (Packaged Commodities) Rules, 19771 Prevention of Food Adulteration Rules, 1955 Supplier name & Address

Net weight

Batch/Code

No

Date of manufacture

Best before (Month and year to be included)/Expiry Date

7.0 Legal compliance:

Should comply with local legislation

8.0 Packaging:

The material shall be packed in metal containers, polyethylene containers, or cardboard containers suitably lined with polyethylene. Subject to agreement between the purchaser and the vendor any other suitable container may also be used.

9.0 Storage condition:

It should be stored at cool and dry place on pallets and away from sunlight.

10. Shelf life:

5 years from the date of manufacturing.