

Product Data Sheet

HOMBITAN® AFDC101

HOMBITAN® AFDC101 pigment is the latest innovation among titanium dioxide products based on the enhanced crystal size controlled technology by Venator. HOMBITAN® AFDC101 pigment is an uncoated anatase titanium dioxide with no odor and taste and can provide excellent opacity to decorative cosmetics, pharmaceutical and food applications.

Typical Properties	USP	FDA	EP	JP	E171
Identity	Positive	-	Positive	Positive	-
TiO ₂ content [%]	99.0 - 100.5	≥99.0	98.0 - 100.5	≥98.5	≥99.0
Loss on drying [%]	≤0.5	-	-	≤0.5	≤0.5
Loss on ignition [%]	≤0.5	≤0.5	-	-	≤1.0
Water soluble substances [%]	≤0.25	≤0.3	≤0.5	≤0.25	≤0.5
Acid soluble substances [%]	≤0.5	≤0.5	-	-	≤0.5
Arsenic (total) [mg/kg]	≤1	-	≤5	≤10	-
Arsenic (HCl-soluble) [mg/kg]	-	≤1	-	-	≤1
Lead (HCl-soluble) [mg/kg]	≤10	≤10	-	-	≤10
Lead (total) [mg/kg]	-	-	-	≤60	-
Antimony (total) [mg/kg]	-	-	≤100	-	-
Antimony (HCl-soluble) [mg/kg]	≤2	≤2	-	-	≤2
Cadmium (HCl-soluble) [mg/kg]	-	-	-	-	≤1
Aluminium Oxide and/or Silicon Dioxides ⁽¹⁾ [%]	-	≤2.0	-	-	≤2.0
Mercury (total) [mg/kg]	≤1	≤1	-	-	-
Mercury (HCl-soluble) [mg/kg]	-	-	-	-	≤1
Acid-soluble Barium Compounds	-	-	see EP	-	-
Iron (total) [mg/kg]	-	-	≤200	-	-
Heavy Metals (HCl-soluble) [mg/kg]	-	-	≤20	-	-
Acidity/Alkalinity [0.01 N HCL/0.01 N NaOH]	-	-	≤1.0ml	-	-
Appearance of solution			see EP	-	-
Total Aerobic Microbial Count (TAMC) [cfu]	-		100		
Total Yeast and Moulds Count (TYMC) [cfu]			100		
Escherichia Coli			Absent in 1g		
Pseudomas Aeruginosa			Absent in 1g		
Staphylococcus Aureus			Absent in 1g		
Salmonella			Absent in 10g		
Candida Albicans			Absent in 1g		

(1) Al₂O₃ and/or SiO₂

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Safety, Health and Environment

As for all fine powders, the handling of titanium dioxide pigments can give rise to airborne dust. Good industrial hygiene practice should be observed so as to avoid the generation and subsequent inhalation of dust. For more information refer to our material safety data sheet.

Storage

Keep the product unstacked in dry and closed rooms at normal temperature and air humidity. To achieve best possible results, we recommend storage under the conditions stated above and use within 36 months from the production date.

Contact Details

Venator
Titanium House, Hanzard Drive
Wynyard Park, Stockton-on-Tees
TS22 5FD, UK

Tel: +44 (0)1740 608001

Email: info@venatorcorp.com

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