



Ti-Pure™
Titanium Dioxide

Chinese Food Contact Status of Ti-Pure™ Titanium Dioxide Pigments

Plastics

Ti-Pure products are acceptable for packaging materials for food contact uses under Standard GB 9685-2016 per the following limitations:

Grade	Limitation
R-101 ¹ R-103 ¹	24 wt% maximum loading and is acceptable for the following plastics: Polyethylene (PE); Polypropylene (PP); Acrylic Styrene (AS); Polystyrene (PS); Acrylonitrile Butadiene Styrene (ABS); Polycarbonate (PC); Polyamide (PA); Polyvinyl dichloride (PVDC); Polyethylene Terephthalate (PET); Polyvinyl chloride (PVC); Unsaturated Polyester (UP)

Coatings

Ti-Pure™ titanium dioxide pigment grades: R-706¹, R-902+¹, and TS-6200¹ are acceptable for packaging materials for food contact uses under Standard GB 9685-2016, and subsequent amendments, for use in coatings without limitations.

Important information about TMP grades:

¹Chemours uses trimethylolpropane (TMP) as a surface treatment on Ti-Pure™ grades R-101 and R-103 at levels up to 0.45 wt. % on a dry TiO₂ basis. Trimethylolpropane (TMP), has been self-classified by TMP manufacturers as a “suspected reproductive toxicant (Rep. Tox. Cat. 2)” (H361f and H361d).

Furthermore, Chemours has completed an assessment of Ti-Pure™ grades of TiO₂ following the ILSI (International Life Sciences Institute Europe) best practices for food packaging value chains. In this assessment, it was observed that trace amounts of 2-Ethylacrolein may be generated as a result of degradation of TMP, which is used as a surface treatment on Ti-Pure™ R-101 and R-103 products. A risk assessment in accordance with article 19 of Regulation (EC) No 10/2011 with due consideration of the worst-case scenario has concluded that the Ti-Pure™ products R-101 and R-103 are compliant with Article 3 of Regulation (EC) No 1935/2004 and materials or articles made with it are safe for use with maximum loading levels up to 10 wt. %

in the final product.

Aluminum Oxide in Surface Treatments

For Ti-Pure™ grades that contain aluminum-based surface treatment components, Chemours reports aluminum content on a total oxide basis for product identity. This reporting format does not reflect the regulatory distinction between aluminum oxide (Al₂O₃, FCA1102) and aluminum hydroxide (Al(OH)₃), which are regulated separately under GB 9685. Only the portion of the surface treatment present as aluminum oxide is subject to the maximum addition limits established for FCA1102, which include a maximum addition level of 17% in food contact coatings and 2% in paper and paperboard, printing inks, rubber and silicone rubber. The downstream user is responsible for determining the level of aluminum oxide from all raw materials in the final article and for confirming compliance with the applicable conditions of use in GB 9685. Only the portion of the surface treatment present as aluminum oxide is subject to the maximum addition limits established for FCA1102, which include a maximum addition level of 17% in food contact coatings and 2% in paper and paperboard, printing inks, rubber and silicone rubber. The downstream user is responsible for determining the level of aluminum oxide from all raw materials in the final article and for confirming compliance with the applicable conditions of use in GB 9685.

The present review only refers to food-contact

applications. Ti-Pure™ products may not be directly added to food, pharmaceuticals, cosmetics, or cigarette papers/filters for tobacco products. Ti-Pure™ products may not be used in the manufacture of any medical device for implantation in the human body without prior written agreement of Chemours.

Further questions should be directed to

TiO2ProductStewardship@chemours.com

CAUTION: Do not use or resell Chemours™ materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless agreed to by Chemours in a written agreement covering such use. For further information, please contact your Chemours representative. These materials may not be directly added to food, pharmaceuticals, cosmetics, or cigarette papers or filters for tobacco products.

The foregoing applies solely to direct addition. This statement does not address, and should not be interpreted as determining, the suitability of Chemours products for use as components of materials or articles intended to come into contact with food. Where such uses are contemplated, the customer or other downstream user is solely responsible for determining and ensuring that the finished material or article complies with all applicable food contact laws and regulations in the relevant jurisdiction(s), including any applicable use, migration limits, good manufacturing practice requirements, and documentation or declaration obligations.

For medical emergencies, spills, or other critical situations, call +1 844 773 2436 for those within the United States or Canada. For those calling from other countries, call +1 302 773 1000, using the appropriate international access prefix. If immediate assistance is required, contact local emergency services.

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