

Product Data Sheet

TIOXIDE® TR81

TIOXIDE® TR81 pigment is a super durable rutile titanium pigment providing excellent whiteness and gloss.

Applications

Demanding exterior industrial coatings such as automotive, coil, wood, powder, protective and marine coatings.

Properties at a Glance

- High brightness and blue tone
- Neutral undertone
- Excellent weathering resistance

Typical Properties

TiO ₂ content [%]	93
Inorganic coating	Alumina, Zirconia
Organic treatment	Present
Crystal size [µm]	0.25
Specific gravity [g/cm ³]	4.1
Loss at 105°C ⁽¹⁾ [%]	0.6
Bulk density (tamped) ⁽²⁾ [g/cm ³]	1.1
Oil absorption ⁽³⁾ [cm ³ /g pigment]	17/100
Water demand ⁽⁴⁾ [cm ³ /g pigment]	23/100
Durability	Super durable
ISO 591 classification	R2
C.A.S No.	13463-67-7

(1) Measured within 48 hours of production. (2) Based on ISO 787/11. (3) Palette knife method, ISO 787/5. (4) In the presence of 0.4% sodium salt of complex polyphosphate calculated on the mass of pigment.

This data sheet includes the typical properties of this pigment. It is not a specification, although specifications are available.

Product Data Sheet

TIOXIDE® TR81

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.

Food Contact

The subject is too wide to be adequately covered in a technical data sheet and customers should seek confirmation of compliance for each of the particular regulations they are interested in by contacting Venator.

Storage

The pigment should not be stored in outside areas exposed to the weather. All direct contact with moisture should be avoided. By storing the pigment correctly, its properties should not deteriorate with time. However to ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Packaging

Venator's titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

Contact Details

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

Tel: +44 (0)1740 608001

Email: info@venatorcorp.com

This Communication is a general guide to the products described in it. Information is updated regularly. For updates or more information, visit www.venatorcorp.com. Although given in good faith, accuracy or completeness of information is not guaranteed. Images used are only examples of possible applications using our products. NOTHING IN THIS COMMUNICATION IS (OR SHOULD BE TAKEN AS) A WARRANTY (EXPRESS OR IMPLIED). NO REPRESENTATION, ASSURANCE OR UNDERTAKING IS MADE. NO LIABILITY IS OR WILL BE ACCEPTED BY VENATOR IN RELATION TO THE ADEQUACY, ACCURACY, COMPLETENESS, REASONABLENESS OF THIS COMMUNICATION. ALL AND ANY SUCH LIABILITY IS EXPRESSLY DISCLAIMED. IN ALL CASES IT IS YOUR RESPONSIBILITY TO DETERMINE THE APPLICABILITY OF THE INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF THE PRODUCTS DESCRIBED FOR ANY PARTICULAR PURPOSE. Unless otherwise expressly stated in this document, Venator products must not be used, resold, distributed, transferred, or otherwise disposed of in (or in each case where intended to be used in) any applications or process in: a) which lead stabilisers/stabilised systems are used where the end product is rigid pvc; b) food; c) cosmetics; d) pharmaceuticals; or e) medical. Nothing in this Communication or disclaimer limits claims in respect of death or personal injury caused by our negligence. This Communication is not: a) a license under any intellectual property right of any entity; or b) a recommendation or authorization to action that infringes any intellectual property right. Unless otherwise agreed in writing and signed by the parties, all sales are subject to the Venator standard terms and conditions of sale. Reference to Venator includes Venator Materials PLC, and any entity that it directly controls, is controlled by, or is under common control with it, and their employees, officers, agents and distributors. Reference to Communication includes this document and anything else made available to you (written or verbal) in connection with the subject matter of this document in any form or medium. TIOXIDE® is a registered trademark of Venator in one or more, but not all, countries. © Copyright 2017. Venator Materials PLC. All rights reserved. Doc ref code: 0161/0917/V2/MA