

Product Data Sheet

TIOXIDE® R-FC5

TIOXIDE® R-FC5 pigment is an alumina surface treated hydrophobic titanium dioxide pigment offering rapid and excellent dispersibility in a large range of polymers in dry processing as well as in liquid plasticizers. TIOXIDE® R-FC5 pigment fine crystal and particle sizes position it in the group of blue undertone plastics grades.

Applications

TIOXIDE® R-FC5 pigment is particularly recommended for use in systems in which fineness of pigment dispersion in the polymer is the top priority: polyolefins, styrenics, engineering polymers, etc. TIOXIDE® R-FC5 pigment permits production of highly pigmented concentrates, such as polyolefin masterbatches. It can also be used in rubber and linoleum. TIOXIDE® R-FC5 pigment enables the manufacture of highly pigmented concentrates, e.g. 70% plasticizer preparations of all widely used liquid plasticizers.

Properties at a Glance

- Bluish undertone
- Good rheological (flow) properties and low dust generation
- Suitable for thermoplastics, thermosets and pigment preparations
- High scattering and lightening power
- Good dispersibility

Typical Properties

Titanium Dioxide classification	(DIN EN ISO 591-1) R2
TiO ₂ content [%]	Minimum 97
Inorganic surface treatment	(Compounds based on:) Al
Organic surface treatment	Hydrophobic: polysiloxane
Color coordinate L* (PVC-P) ⁽¹⁾	Approx. 97
Color coordinate b* (PVC-P) ⁽¹⁾	Approx. 3.5
Rel. lightening power (PVC-P) ⁽¹⁾	Approx. 105
Bluish undertone Rz/Rx (PVC-P) ⁽¹⁾	Approx. 1.045
Fineness of grind [µm]	< 20
C.A.S No.	13463-67-7
Durability	Moderately durable
Specific gravity [g/mL]	Approx. 4.1

(1) According to DIN 53775

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

Product Data Sheet

TIOXIDE® R-FC5

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 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) i) 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 general terms and conditions of sale of Venator. Reference to Venator includes Venator Materials Corporation, its direct and indirect affiliates, 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 Corporation. All rights reserved. Doc ref code: 0145/0417/V1/MA