

Tioxide TR28 is a fine crystal rutile pigment designed specifically for use by the plastics industry.

Its surface treatment ensures very easy dispersion, improved throughput and minimum absorption of moisture.

Tioxide TR28 is recommended for polyolefin masterbatch including polyethylene for extrusion. Its high thermal stability makes it ideal for Plastics that are processed at high temperature, consequently phenomena such as die build up or lacing are minimised.

TYPICAL PERFORMANCE OF TR28

PROPERTIES	TYPICAL PERFORMANCE*	TEST METHOD	
Composition/ Volatiles	TiO ₂	98.0 %	SAMM 4.01.01.01
	Al ₂ O ₃	0.6 %	SAMM 5.2.01
	Organic	Present	
	Loss at 290°C (Karl Fischer)	0.4 % max	SPTM 2019
Rheological properties	Oil absorption (palette knife method)	13 g/100 g pigment	SPTM 2007
	Plasticiser absorption	14 g/100 g pigment	SPTM 2006
Dispersibility (Sieve residue)	Amount of undispersed particles : - in water (≥ 20µm)	2 mg/kg	SPTM 1112
	- in PE masterbatch (45µm ≥ - ≥ 20µm)	10 mg/kg	SPTM 2013
Optical properties	Whiteness	Similar to Tioxide R-FC5	in PE
	Opacity	Similar to Tioxide R-FC5	in thin film
Miscellaneous	Reactivity with antioxidants	Low	TPLS
	Durability	Moderate	
	Crystal size	0.21 µm	geometric weight distribution (average) standard deviation
		1.3	
	Specific gravity	4.1	SPTM 181
	Bulk density (tamped)	1.4 g/cm ³	ISO 787-11
	Surface area	6.5 m ² /g	BET
ISO 591 classification	R1		

* This table indicates the properties of this grade. It is not a specification.

A GUIDE TO

Tioxide TR28

This leaflet is a general guide to the properties of Tioxide TR28 and its potential applications. Further technical information is available from Technical Service personnel within Huntsman Tioxide.

Although all information is given in good faith, we cannot accept any liability in connection with either the accuracy or completeness of such information, or that it or Tioxide TR28 will be suitable for your particular purpose.

Samples are available on request.

You should ensure that any process you use or product you make using Tioxide pigment does not infringe any patent.

Tioxide Europe S.A.S.

Huntsman Tioxide Group Technical Centre Plastics
1, rue des Garennes
BP 89, 62102 Calais cedex, France

Telephone : 33 (0)3 21 46 45 00

Fax : 33 (0)3 21 46 45 22

www.huntsman.com/tioxide

Tioxide Europe S.A.S. is a part of Huntsman Tioxide

Registered in England N° 249759

Tioxide is a registered trade mark of Huntsman Tioxide

It is Huntsman Tioxide policy to update this information regularly. You are therefore advised to check that this leaflet is the most up-to-date.

JANUARY 2002

TiINFO / DS / TR28-GB / Version 5i

A GUIDE TO

Tioxide TR28

SAFETY, HEALTH AND ENVIRONMENT

All Huntsman Tioxide titanium dioxide pigments, including Tioxide TR28, are not classified as hazardous materials. Nevertheless, Huntsman Tioxide will provide its customers with a 16 point safety data sheet, in conformance with the International Standard 11014-1.

FOOD CONTACT

This subject is too wide to be adequately covered in a general technical data sheet and customers should seek confirmation of compliance for each of the particular regulations they are interested in by contacting the Huntsman Tioxide Group Technical Centre Plastics, or the local sales forces.

DELIVERIES

Tioxide TR28 is available in the following pack types:
25 kg plastic sacks
1 Tonne returnable static reducing FIBCs
Tioxide TR28 can also be delivered in bulk tankers.