

Product Information

Bayferrox® TP 5277

Description

Type	Red pigment
Delivery form	Powder
Chemical class	Synthetic iron oxide α - Fe_2O_3
Colour Index	Pigment red 101 (77491)
CAS-No.	1309-37-1
REACH registration no.	01-2119457614-35-0000

Specified Color Data

Colour values and tinting strength					
Preliminary Standard	Bayferrox TP 5277				
Year	2018				
Binder:	Full shade		Reduction ⁴⁵ with titanium dioxide (1:5)		Test method No. 001 ⁴¹
Test paste based on a non drying alkyd resin	min	max	min	max	
ΔL^*	-0.5	0.5			
Δa^*	-0.8	0.8	-0.8	0.8	
Δb^*	-0.8	0.8	-0.8	0.8	
ΔE^*_{ab}		1.0		1.0	
Relative tinting strength [%]			95	105	

Specified Technical Data

Technical Data	min	max	Test method
Water-soluble content [%]		0.5	similar to DIN EN ISO 787-3:2000
Sieve residue (0.045 mm sieve) [%]		0.05	DIN EN ISO 787-7:2009
pH value	3.0	7.0	DIN EN ISO 787-9:1995

Informative Technical Data (guide values)

			Test method
α - Fe ₂ O ₃ content [%] ⁵³	>	98.9	Information about the determination of iron oxide ⁴¹
Loss on ignition at 1000 °C, 0.5 h [%]	<	4.0	DIN 55913-2:1972
Moisture content (after production) [%]	<	1.0	DIN EN ISO 787-2:1995
Particle shape		spherical	Electron micrographs
Predominant particle size [µm]	~	0.1	Electron micrographs
Oil absorption [g/100 g]	~	20	DIN EN ISO 787-5:1995
Tamped density [g/ml]	~	1.0	similar to DIN EN ISO 787-11:1995
Density [g/ml]	~	5.0	DIN EN ISO 787-10:1995

⁴¹ Obtainable from LANXESS Deutschland GmbH, Business Unit Inorganic Pigments, [mailto: ipg.product-information@lanxess.com](mailto:ipg.product-information@lanxess.com)

⁴⁵ Colour values after matching of the tinting strength parameter Y, i.e. $\Delta L^* = 0$

⁵³ Minor elements may arise from the raw materials used. However, these are firmly bound to the crystal lattice as ions.

*

*These items are provided as general information only. They are approximate values and are not considered part of the product specification.

Bayferrox® is a registered trademark of Bayer AG, Germany.

LANXESS Corporation • 111 RIDC Park West Drive • Pittsburgh, PA 15275 • Phone: 1-800-LANXESS •
www.Bayferrox.com www.US.LANXESS.com

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

Health and Safety Information: Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS products mentioned in this publication. For materials mentioned which are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., *material safety data sheets and product labels*. Consult your LANXESS Corporation representative or contact the Product Safety and Regulatory Affairs Department at LANXESS.

Note: The information contained in this publication is current as of November 2017. Please contact LANXESS to determine if this publication has been revised