

Product Information

Bayferrox® Tan 223

Description

Type	Brown pigment	Delivery Form	Powder
Chemical Class	Synthetic Iron Oxide Mixture	Color Index	Pigment Red 101 (77491)/ Pigment Black 33 (77537)/ Pigment Yellow 119 (77496)/ Calcium Carbonate
Standard	Bayferrox Tan 222	Manufacturer	LANXESS Corporation
Standard year	1983	CAS-No.	1309-37-1/ 68186-94-7/ 68187-51-9/1317-65-3/417-34-1

Specified values are determined to LANXESS internal quality control procedures. Color readings are reported in CIELab* units.

Specifications

		<u>Minimum</u>	<u>Maximum</u>	<u>Test Method</u>
1. Color* ⁴⁶	Δa^*	-0.8	0.8	Plastisol – Color and
	Δb^*	-0.8	0.8	Tinting Strength Evaluation ⁴¹
	ΔE^*_{ab}		1.5	
2. Relative Tinting Strength		95	105	Plastisol – Color and Tinting Strength Evaluation ⁴¹

*Binder test paste is based on a white cement

Bayferrox® Tan 223 – Informative Technical Data (Typical Values)**

		Test Method
Loss on ignition at 1000°C, ½ hr. [%]	< 1	DIN 55913-2 (1972)
Moisture content – after production [%]	< 1	DIN EN ISO 787-2 (1995)
Particle Shape	-----	Electron Microscope
Predominant Particle Size [µm]	Variable	Electron Microscope
Oil Absorption [g/100g]	15 - 20	DIN EN ISO 787-5 (1995)
Tap Density [g/ml]	0.9 – 1.3	DIN EN ISO 787-11 (1995)
Density [g/ml]	~4.9	DIN EN ISO 787-10 (1995)

⁴¹ Obtainable from LANXESS, Business Unit Inorganic Pigments,

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.

Packaging

Grades are delivered in different packaging materials. Please ask your local contact about the packaging for the grade in question or send an enquiry mail to: jpg.product-information@lanxess.com

Transport and Storage

General storage conditions:	Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature.
Special conditions of opened packaging	Close bags after use to prevent the absorption of moisture and contamination.
Shelf life:	<p>This product has an excellent shelf life. We recommend that this product is used within ten years of the date of manufacture and limit our product warranty to this period. During the first ten years after the date of manufacture we are able to ensure compliance with this specification, provided the material has been stored as stated above and the packaging materials remain undamaged. It must be taken into account that the packaging mean can have a shelf life considerably shorter than the one for this product. All recommendations and warnings given on the packaging must strictly be adhered to. Deviations from storage conditions can lead to undesired changes on side of the packaging materials. These succumb to ageing which may also lead to compromising their capability. Concerning their estimated service life we differentiate between the following packaging materials:</p> <p>All kinds of bags (Paper and PE) 5 years All kinds of Bulk bag 3 years</p> <p>With respect to our Bulk Bags we recommend to avoid UV-radiation because the sewing material of the lifting loops is stabilized against degradation by UV-radiation for approximately 1000 h incident sun radiation for the climate of Central Europe. A more intense sun radiation can shorten this period significantly. In cases where there is doubt the lifting loops must be checked thoroughly.</p>

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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.
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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., *safety data sheets and product labels*. Consult your LANXESS representative or contact the Product Safety and Regulatory Affairs Department at LANXESS.

Note: The information contained in this publication is current as of October 2024.