

## Technical Data Sheet

### Bayferrox® 318 (PF)

#### Description

Type	Black Pigment
Delivery form	Powder
Chemical class	Synthetic iron oxide – Fe <sub>3</sub> O <sub>4</sub>
Colour Index	Pigment black 11 (77499)
CAS-No.	1317-61-9

#### Specified Color Data

<b>Color values and tinting strength</b>			
Standard	Bayferrox 318 (PF)		
Lot	2021		
<b>Binder:</b>	Test Method based on DIN 55 983 (1983)		
Test paste based on a non drying alkyd resin			
	<b>min</b>	<b>max</b>	<b>Test method</b>
<b>Reduction with titanium dioxide (1:5)</b>	Based on DIN6174 & 55986		
Delta-a*	-0.8	0.8	
Delta-b*	-0.8	0.8	
Delta-E <sub>ab</sub> *		1.4	
<b>Relative tinting strength [%]</b>	95	105	Based on DIN 55 913

#### Specified Technical Data

<b>Technical data</b>	<b>min</b>	<b>max</b>	<b>Test method</b>
Sieve residue 325 Mesh [%]		0.8	Based on ASTM D-185
pH	5.0	8.0	Based on ASTM D-1208

## Technical Data Sheet

### Bayferrox® 318 (PF)

#### Informative Technical Data (Guide Values)

	min.	max.	Test method
Fe <sub>3</sub> O <sub>4</sub> Content [%]	97.6		Based on ASTM D-50
Soluble Salts [%]		1.5	Based on ASTM D-1208
Oil absorption [g/100g]	10	20	Based on ASTM D-281
Tamped density [g/cm <sup>3</sup> ]	1.0	1.4	Based on ASTM D-787-11
Density [g/cm <sup>3</sup> ]	4.2	4.6	Based on ASTM D-153-75
Moisture content after production [%]		3.5	Based on ASTM D-280

## Packaging

25 kg - paper bag

1000 kg – big bag

## Transport and Storage

**General storage conditions:** Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature.

**Special conditions for opened packaging:** Close bags after use to prevent the absorption of moisture and contamination.

**Shelf life:** 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 to protect the product. Concerning their estimated service life we differentiate between the following packaging materials.

## Technical Data Sheet

### Bayferrox® 318 (PF)

#### Safety

**Classification:** Under the relevant directives and corresponding national regulations valid in the individual EC member states, the product is not classified as dangerous. It is not dangerous according to transport regulations.

Chemical product is not classified as dangerous according with ABNT NBR 14725-2 and ANTT No 5232/2016 resolution.

**Additional information:** The safety data sheet should be observed. The SDS (safety data sheet) can be obtained by e-mail to: [fichadeseguranca@lanxess](mailto:fichadeseguranca@lanxess).

#### Use

Bayferrox 318 (PF) is broadly used in several applications, however its use is not recommended in food and drugs.

#### Site address

LANXESS Indústria de Produtos Químicos e Plásticos Ltda

Rodovia Marechal Rondon, km 139

18540-000 – Porto Feliz – São Paulo

Brazil

[www.lanxess.com.br](http://www.lanxess.com.br)

This information and our technical advice – whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.