TECHNICAL DATA SHEET

Iron Oxide Brown 610

Appearance	Brown pigment
Delivery Form	Powder
Chemical Class	Synthetic iron oxide $Fe_2O_3 + Fe_2O_3 \cdot H_2O$ (¦Á-FeooH) + Fe_3O_4
Color Index	Combination of 77491,77492,77499
Cas no.	1317-61-9. 1309-37-1. 51274-00-1
Use Recommendation	Coatings, Construction, plastic, Rubber, etc

TECHINICAL DATA		
Item	**Specification**	**Test Method**
Color Shade（△E）max	1.0	----------
Tinting Strength %	95-105	----------
Water-Soluble Content [%] max	0.5	DIN EN ISO787 Part 3 (1995)
Sieve Residue（0.045mm）[%] max	0.5	DIN EN ISO787 Part 2 (1995)
PH Value	4.0 ----7.0	DIN EN ISO787 Part 9 (1995)
Fe_2O_3 & Fe_3O_4 [%] min	90.0	DIN 55913 Sheet 2 (1972)
Moisture (After Production) [%] max	1.0	DIN EN ISO 787 Part 2 (1995)
Oil Absorption [g/100g]	15-35	DIN EN ISO787 Part 5 (1995)

STANDARD PACKAGING	25kg/bag with pallet, wrapped and shrinked, or 1100kg/ jumbo bags with pallet

TRANSPORT AND STORAGE

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.

SAFETY

The product is not classified as dangerous under the relevant EC directives and corresponding national regulations valid in the individual EU member states. It is not dangerous according to transport regulations. In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labeling and transport of dangerous substances must be ensured.
in the safety data sheet should be observed.
on handing, product safety and ecology.

TECHNICAL DATA SHEET

Iron Oxide Brown 686

Appearance	Brown pigment
Delivery Form	Powder
Chemical Class	Synthetic iron oxide Fe2O3+ $Fe_2O_3 . H_2O$ (¦Á-FeooH)+Fe3O4
Color Index	Combination of 77491,77492,77499
Cas no.	1317-61-9. 1309-37-1. 51274-00-1
Use Recommendation	Coatings, Construction, plastic, Rubber, etc

TECHINICAL DATA		
Item	**Specification**	**Test Method**
Color Shade（△E）max	1.0	----------
Tinting Strength %	95-105	----------
Water-Soluble Content [%] max	0.5	DIN EN ISO787 Part 3 (1995)
Sieve Residue（0.045mm）[%] max	0.5	DIN EN ISO787 Part 2 (1995)
PH Value	4.0 ----7.0	DIN EN ISO787 Part 9 (1995)
Fe_2O_3 & Fe_3O_4 [%] min	90.0	DIN 55913 Sheet 2 (1972)
Moisture (After Production) [%] max	1.0	DIN EN ISO 787 Part 2 (1995)
Oil Absorption [g/100g]	15-35	DIN EN ISO787 Part 5 (1995)

STANDARD PACKAGING	25kg/bag with pallet, wrapped and shrinked, or 1100kg/ jumbo bags with pallet

TRANSPORT AND STORAGE

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SAFETY

The product is not classified as dangerous under the relevant EC directives and corresponding national regulations valid in the individual EU member states. It is not dangerous according to transport regulations. In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labeling and transport of dangerous substances must be ensured.
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Technical Data Sheet

IOX BR 06

Description

Type	Brown pigment
Delivery form	Powder
Chemical class	Synthetic iron oxide
Colour Index	--
CAS-No.	1309-37-1 / 1317-61-9
REACH	All constituents are registered

Specification

Colour values and tinting strength				
Standard	IOX BR 06			
Year	2015			
Reduction		**min**	**max**	**Test method**
Binder: Test paste based on a non-drying alkyd resin	ΔE^*_{ab} [45]		2.0	No. 001 [41]
Binder: Cement mortar	Relative tinting strength [%]	95	105	
Technical data				
Sieve residue (0,045 mm) [%]			0.3	DIN EN ISO 787-7:2009

Informative Technical Data (guide values)

					Test method
Iron oxide content [%] [53]	>		96.9		Information about the determination of iron oxide [41]
pH value		3.0	-	8.0	DIN EN ISO 787-9:1995
Water soluble content [%]	<		1.5		similar to DIN EN ISO 787-3:2000
Moisture content (at delivery) [%]	<		2.5		DIN EN ISO 787-2:1995

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

[45] Colour values after matching of the tinting strength parameter Y, i.e. Δ L*=0

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

Edition: 2016-09-30 (Release 2.2)
Previous Edition: 2015-11-09 (Release 2.1)

IOX BR 06

Packaging

The product is available in sacks or bulk bags. For further information please ask your local contact or send an enquiry by e-mail to mailto: ipg.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 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. Concerning their estimated service life we differentiate between the following packaging materials: All kinds of bags (Paper and PE) …… 5 years All kinds of Bulk bag ……..…… 3 years 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 appr. 1000 h incident sun radiation for the climate of Central Europe. A more intense sun radiation can shorten this period significantly. In cases of doubt the lifting loops must be checked thoroughly.

Safety

The product is not classified as dangerous under the relevant EC Directives and corresponding national regulations valid in the individual EU member states. It is not dangerous according to transport regulations.

In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labelling and transport of dangerous substances must be ensured. The safety data sheet should be observed. This contains information on handling, product safety and ecology.

Status of registration (not specified)

The components of this product are listed on the following inventories:				
Europe: EINECS	USA: TSCA	Canada: DSL	Australia: AICS	New Zealand: NZIOC
Philippines: PICCS	Japan: ENCS + ISHL	Korea: ECL	China: IECSC	Taiwan: NECSI

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