

## Product Information

### Bayoxide® E 33

#### Description

Type	Technical Oxide
Delivery form	Granules
Chemical class	Synthetic iron hydroxide oxide yellow $\alpha$ - FeOOH
CAS-No.	51274-00-1
REACH registration no.	01-2119457554-33-0000

#### Specified Technical Data

Technical Data	min	max	Test method No. 036 41
Fe <sub>2</sub> O <sub>3</sub> Content [%]	70		similar to DIN EN ISO 787-11:1995 ISO 9277:2003
Bulk Density [g/cm <sup>3</sup> ]	0.46	0.57	
Specific Surface Area (BET) [m <sup>2</sup> /g]	120	200	similar to DIN EN ISO 787-3:2000 DIN EN ISO 787-2:1995
Water soluble content [%]		1.0	
Moisture content [%]		20	No. 039 41
Sieve analysis < 0.315 mm [%]		10	No. 039 41
Sieve analysis > 2.0 mm [%]		5.0	Test methods
Trace elements		max	Atomic spectroscopy
Al [mg/kg]	min	350	Atomic spectroscopy
As [mg/kg]		20	Atomic spectroscopy
Ba [mg/kg]		10	Atomic spectroscopy
Cd [mg/kg]		5	Atomic spectroscopy
Co [mg/kg]		100	Atomic spectroscopy
Cr [mg/kg]		250	Atomic spectroscopy
Cu [mg/kg]		100	Atomic spectroscopy
Mn [mg/kg]		3000	Atomic spectroscopy
Ni [mg/kg]		250	Atomic spectroscopy
Pb [mg/kg]		3	Atomic spectroscopy
Zn [mg/kg]		100	Atomic spectroscopy

## Bayoxide® E 33

### Informative Technical Data (guide values)

$\alpha$ - FeOOH content [%] <sup>53</sup>	>	99	Test method Information about the determination of iron oxide <sup>41</sup>
Density [g/ml]	~	4.0	DIN EN ISO 787-10:1995

<sup>41</sup> Obtainable from LANXESS Deutschland GmbH, Business Unit Liquid Purification Technologies,  
mailto: lewatit@lanxess.com

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

## Bayoxide® E 33

### 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:lewatit@lanxess.com>

### Transport and Storage

General storage conditions:	Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature.  Avoid crushing the granules.
Special conditions for 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 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.</p>

### Safety

Classification	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.
Additional information	<p>In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labelling and transport of dangerous substances must be ensured.</p> <p>The safety data sheet should be observed. This contains information on handling, product safety and ecology. The safety data sheet is available at <a href="http://www.lpt.lanxess.com">www.lpt.lanxess.com</a>.</p>

## Bayoxide® E 33

### Restrictions in Usage

Interfering ions, the pH of the water and other factors may influence the performance of the product. The user of the product is responsible for monitoring the quality of the treated water to ensure that it complies with local regulations.  
The product must not be used for the treatment of water at a pH below 5 and above 10.

### Disposal of Waste Product

The spent media is to be disposed of in approved landfills provided local regulations are observed. The media is educted from the adsorber vessel into a purpose built tanker. Operators should confirm that they can meet any local landfill tipping conditions.  
For disposal within EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

### 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: METI	Korea: ECL	China: IECSC	Taiwan: NECSI	