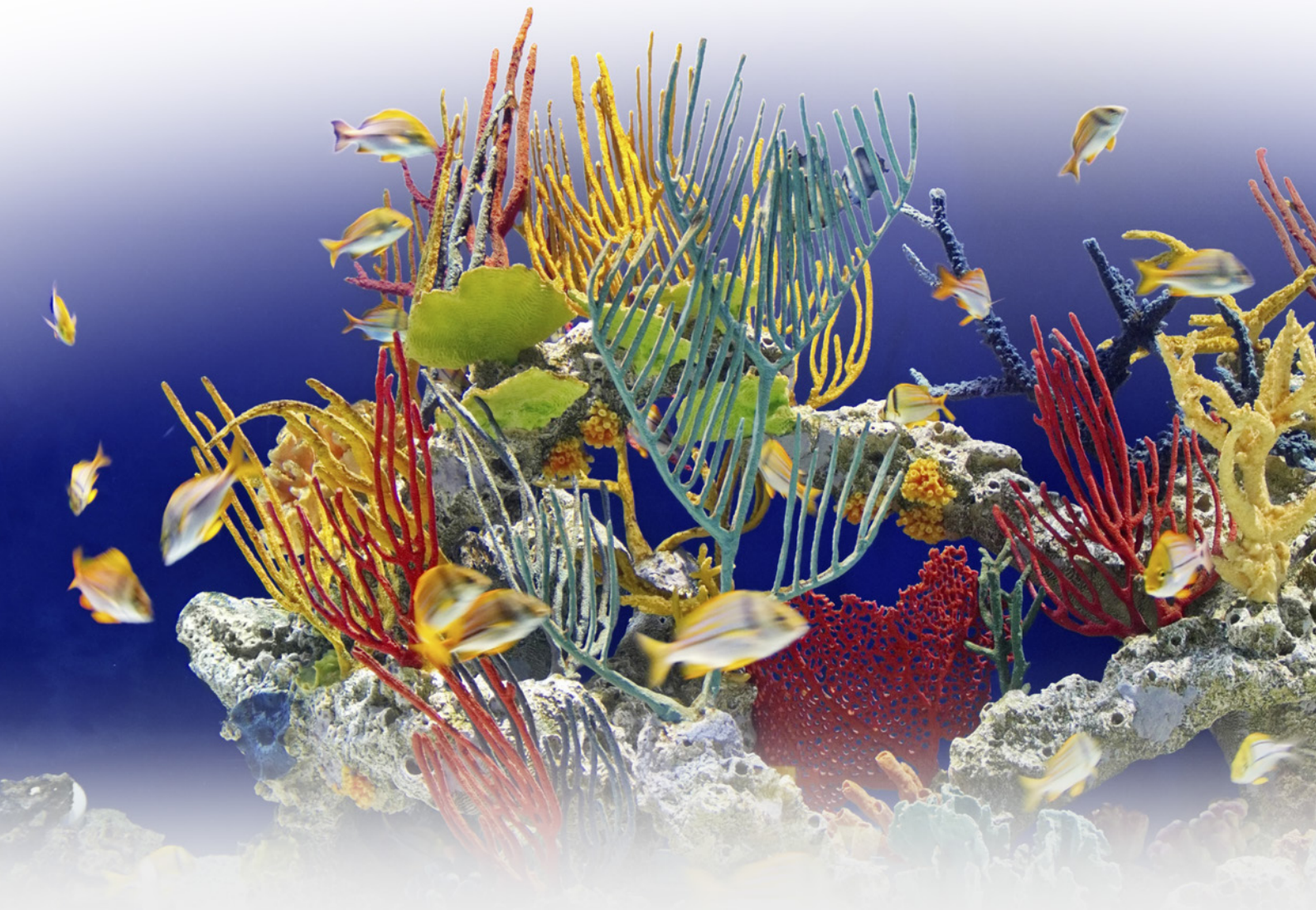


QUALITY REMOVES.



Synthetic iron oxide adsorbers
to reduce phosphates in aquarium water

X Bayoxide®

QUALITY WORKS.

LANXESS
Energizing Chemistry

BAYOXIDE®

EFFECTIVE PHOSPHATE REDUCTION FOR AQUARIUMS

Aquariums enjoy great popularity. In many cases, however, they require a great deal of maintenance to protect the animals and plants – and ultimately to keep them looking beautiful. In this context, the phosphate level in the water plays an important role. Excessive phosphate causes increased algae growth in freshwater aquariums and serious harm to fish and corals in saltwater aquariums.


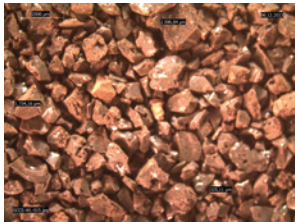
Phosphate levels in freshwater aquariums should not exceed 0.50 mg/l. The recommended range for saltwater aquariums is between 0.02 and 0.10 mg/l. LANXESS has developed two synthetic iron oxides in granular form specifically for use in aquariums that quickly and effectively reduce the phosphate concentration in the water.

Bayoxide®
– the ideal solutions for clean aquarium water

Bayoxide® E IN 20 has been developed specially to remove phosphates from fresh water, and on account of its large specific surface achieves rapid and long-lasting phosphate bonding. Compared to conventional adsorption media, the high iron content of the product also significantly increases absorption capacity, which in turn extends filter life.

Bayoxide® E IN 30 has a significantly higher absorption capacity, particularly in saltwater aquariums. An additional advantage is the increased mechanical stability of the product. Even when severely stressed, the water remains clear and does not discolor during treatment with this specialty product.

Technical product data – an overview

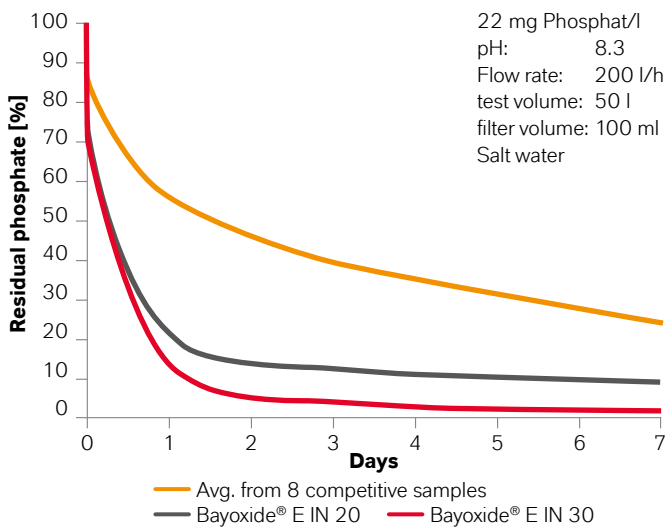
Properties		Bayoxide® E IN 20	Bayoxide® E IN 30	
				
FeOOH content (dry weight)		> 99	> 99	[%]
Bulk density		0.45 – 0.60	0.75 – 0.95	[g/ml]
specific surface BET		150	300	[m ² /g]
Avg. particle size		0.4 – 1.9	0.6 – 1.9	[mm]
Max. moisture content		20	20	[%]
Abrasion stability of the washed product	Shaker test	2 - 5	0.5 - 2	[%]
Absorption capacity (% by weight)	Fresh water	11.5	8,5	[% PO ₄]
	Salt water	2.7	6.6	[% PO ₄]
Absorption capacity (by volume)	Fresh water	64.6	75.4	[g PO ₄ /l]
	Salt water	15.0	58.7	[g PO ₄ /l]
Appearance		Granules	Granules	

ALL THE BENEFITS AN OVERVIEW

- Faster and more effective reduction of phosphate and silicate
- Can be used in fresh water and salt water
- Extends filter life
- Extraordinarily high absorption capacity, particularly **Bayoxide® E IN 30** in salt water
- Very high mechanical stability, particularly **Bayoxide® E IN 30**
- No discoloration or clouding
- Long shelf life

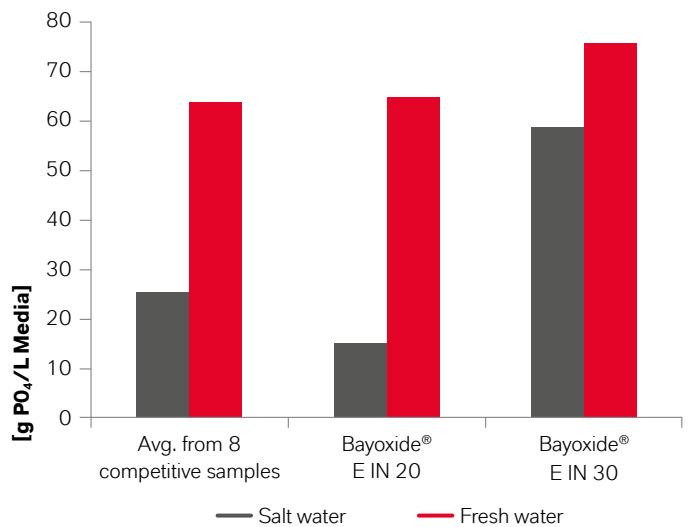
High effectiveness

Bayoxide® E IN 20 and **Bayoxide® E IN 30** produce a rapid and long-lasting reduction in phosphate levels.



Long filter life

Compared to many conventional adsorber media, **Bayoxide® E IN 30** has a particularly high absorption capacity, which maximizes filter life.



No discoloration or clouding

Bayoxide® E IN 30 is characterized by its particularly high abrasion stability.

If it is pre-washed, **Bayoxide® E IN 30** yields almost no further fines, even when mechanically stressed.





LANXESS Deutschland GmbH
Liquid Purification Technologies
Kennedyplatz 1
50569 Cologne
Germany

lewatit@lanxess.com
www.lpt.lanxess.com

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, product information and product labels. Consult your LANXESS representative in Germany or contact the Regulatory Affairs and Product Safety Department of LANXESS Germany. For business in the United States, please contact the LANXESS Product Safety and Regulatory Affairs Department in Pittsburgh, Pennsylvania. Regulatory Compliance Information: Some of the end uses of the products described in this publication must comply with applicable regulations, such as those of the FDA, BfR, NSF, USDA and CPSC. If you have any questions on the regulatory status of these products, please consult your LANXESS representative in Germany, or contact the Regulatory Affairs and Product Safety Department of LANXESS Germany or – for business in the USA – your LANXESS Corporation representative, the LANXESS Regulatory Affairs Manager in Pittsburgh, Pennsylvania. 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. The same applies to suggested formulations and recommendations. 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 a 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 General Conditions of Sale and Delivery. All information and technical assistance is given without 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 in this brochure is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with industrial property rights such as patents covering any material or its use. No license is implied or in fact granted under the claims of industrial property rights such as patents.

Edition 03/2017

Bayoxide® is a registered trademark of Bayer AG, Leverkusen, Germany