

Lewatit® IN 42 is a cylindrically shaped inert material for use as covering and protection layer in the

- » Lewatit® WS System
- » Lewatit® VWS System
- » Liftbed System
- » Multistep System
- » Lewatit® Reverse WS-System

as well as other packed bed systems.

Lewatit® IN 42 is of lighter specific gravity than water and therefore it floats on the surface of ion exchange resin bed.

During service the upward flow (exception: Reverse WS-system) of the fluid to be treated forces the resin bed against this layer. Thus, an uniformly distributed fluid passage through the resin bed is ensured. During the regeneration phase the regenerant is evenly distributed by the downward flow. Besides, **Lewatit® IN 42** protects the strainers of the discharge system from being clogged.

The special properties of this product can only be fully utilized if the technology and process used correspond to the current state-of-the-art. Further advice in this matter can be obtained from Lanxess Corporation.

PRODUCT INFORMATION

LEWATIT® IN 42



Common Description

Delivery form	inert granulate
Appearance	white, translucent

Specified Data

Mean bead size	d50	mm	1.5
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This document contains important information and must be read in its entirety.

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Previous Edition: 2020-05-19

Typical Physical and Chemical Properties

		US Units	Metric Units	
Bulk density for shipment	(+/- 5%)	lb/ft ³	g/L	520
Density			approx. g/mL	0.8
Stability pH range				0-14
Storage time (after delivery)			max. years	2
Storability temperature range			°C	-20 - +40

Operation

		US Units		Metric Units	
Operating temperature		max. °F	212	max. °C	100
Operating pH range	during exhaustion				0-14
Bed depth for single column		min. inches	4	min. mm	100
Specific pressure loss (15°C)				kPa*h/m ²	0.4
Max. pressure loss during operation		PSI	36	kPa	250

Additional Information & Regulations

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE OF PRODUCTS MENTIONED HEREIN IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING ANY PRODUCT, ALWAYS READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Safety precautions

Strong oxidants, e.g. nitric acid, can cause violent reactions if they come into contact with ion exchange resins.

Disposal

In the European Community Ion exchange resins have to be disposed, according to the European waste nomenclature which can be accessed on the internet-site of the European Union.

Packaging

The experience has shown that the packaging stability for reliable resin containment is limited to 24 months under the storage conditions described within the product safety information. It is therefore recommended to use the product within this time frame; otherwise the packaging condition should be checked regularly.

Safety precautions	Safety precautions Strong oxidants, e.g. nitric acid, can cause violent reactions if they come into contact with ion exchange resins.
Toxicity	Toxicity The safety data sheet must be observed. It contains additional data on product description, transport, storage, handling, safety and ecology.
Disposal	Disposal In the European Community Ion exchange resins have to be disposed, according to the European waste nomenclature which can be accessed on the internet-site of the European Union.
Storage	Storage It is recommended to store ion exchange resins at temperatures above the freezing point of water under roof in dry conditions without exposure to direct sunlight. If resin should become frozen, it should not be mechanically handled and left to thaw out gradually at ambient temperature. It must be completely thawed before handling or use. No attempt should be made to accelerate the thawing process.

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 application. 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 with notice. It is expressly understood and agreed that you assume and hereby expressly release us from 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.

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 Corporation products mentioned in this publication. For materials mentioned which are not LANXESS Corporation 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 Corporation representative or contact the Product Safety and Regulatory Affairs Department at LANXESS Corporation

Regulatory Compliance Information: Some of the end uses of the products described in this publication must comply with applicable regulations, such as the FDA, BfR, NSF, USDA, and CPSC. If you have any questions on the regulatory status of these products, contact - for business in the USA - the LANXESS Corporation Regulatory Affairs and Product Safety Department in Pittsburgh, PA, USA or for business outside US the Regulatory Affairs and Product Safety Department of LANXESS Deutschland GmbH in Germany.

Note: The information contained in this publication is current as of the date of edition. Please contact LANXESS Corporation Inc. to determine if this publication has been revised.

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