

PRODUCT INFORMATION

LEWATIT® IN 42



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, Business Unit Ion Exchange Resins.

General Description

Ionic form as shipped	inert granulate
Functional group	none
Appearance	white, translucent

Physical and Chemical Properties

		metric units	
Bead size		mm	1.5
Bulk density	(+/- 5 %)	g/l	520
Density		approx. g/ml	0.8
Stability	at pH-range		0 - 14
Storability	of the product	max. years	2
Storability	temperature range	°C	-20 - 40

Recommended Operating Conditions*

	metric units	
Operating temperature	max. °C	100
Operating pH-range		0 - 14
Bed depth	min. mm	100
Specific pressure drop (15 °C)	approx. kPa*h/m ²	0.4
Pressure drop	max. kPa	250

* The recommended operating conditions refer to the use of the product under normal operating conditions. It is based on tests in pilot plants and data obtained from industrial applications. However, additional data are needed to calculate the resin volumes required for ion exchange units. These data are to be found in our Technical Information Sheets.

Additional Information & Regulations

Safety precautions

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

Toxicity

The safety data sheet must be observed. It contains additional data on product description, transport, storage, handling, safety and ecology.

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

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.

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.

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This document contains important information and must be read in its entirety.

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