

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 Liquid Purification Technologies.

Common Description

Delivery form	inert granulate
Appearance	white, translucent

Specified Data

Mean bead size	d50	mm	1.5
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Typical Physical and Chemical Properties

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

Operation

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

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

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.

Packaging

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

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LENNTECH

WATER TREATMENT SOLUTIONS

info@lennotech.com Tel. +31-152-610-900

www.lennotech.com Fax. +31-152-616-289

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