PRODUCT INFORMATION
LEWATIT® IN 50

Lewatit® IN 50 is a inert, solid, plastic material supplied in spherical form for application in upflow regenerated ion exchange systems. It is used as a covering and protection layer for the upper collection / distribution nozzles. **Lewatit® IN 50** is specially designed for applications with Lewatit® Reverse WSSystems and other packed bed systems.

Lewatit® IN 50 has a specific gravity that is lighter than water, and therefore it will float on the surface of an ion exchange resin bed. It is also prepared in a particle size distribution designed to optimize flow performance in a reverse fluidized bed operation.

During the downflow service cycle the **Lewatit® IN 50** acts as an inert spacer material that provides a uniformly distributed particle zone for fluid passage through the resin bed to the collection system. During the upflow compaction and regeneration cycle the **Lewatit® IN 50** resin allows dirt and resin fragments to pass through the inert zone to waste while retaining the resin bed and protecting the collector system.

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	3.75

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 5%)		36	g/L	570
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			6	min. mm	150
Specific pressure loss kPa*h/m² (15°C)				kPa*h/m² (15°C)	0.1
Max. pressure loss during operation			44	kPa	300

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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