PRODUCT INFORMATION
LEWATIT® VP OC 1064 MD PH

Lewatit ® VP OC 1064 MD PH is a macroporous adsorber without functional groups. This monodisperse product (beads of a unifrom seize) possesses an excellent mechanical and osmotic stability. It is suitable for removing and adsorbing the following ingredients in the pharmaceutical industry, e.g. from waste water of from process streams:

- Anionic, cationic and non-ionic surfactants
- Chlorinated and nitrated hydrocabrons
- Colorants or organic inert materials
- Residual amounts of liquid extractants, such as tributyl phosphate and di-2-ethylhexyl phosphate (D2EHPA)
- Non-polar organic ingredients whith low molecular mass

Lewatit ® VP OC 1064 MD PH exhibits the following properties:

- Very high mechanical stability
- Longer lifetime and better regeneration efficiency compared to activated carbon
- High adsorption capacity especially at medium and high feed concentration
- Good kinetics during adsorption and elution

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

Functional group	None
Matrix	Styrenic
Structure	Macroporous
Appearance	White, opague

Specified Data

Uniformity coefficient		max.	1.1
Mean bead size	d50	mm	0.49 (+/- 0.05)

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 5%)	g/L	600
Density		approx. g/mL	1.00
Water retention (delivery form)		approx. weight %	54-63
Stability pH range			0-14
Stability temperature range		°C	1-150
Surface BET		approx. m^2/g	800
Pore volume		approx. cm^3/g	1.2
Pore diameter		approx. nm	5-10

Operation

Operating temperature		max. °C	150
Operating pH range	during exhaustion		0-14
Bed depth for single column		min. mm	1000
Back wash bed expansion per m/h (20°C)		%	40 (15°C)
Specific pressure loss kPa*h/m^2 (15°C)		kPa*h/m^2 (15°C)	1.5
Max. pressure loss during operation		kPa	250

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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