

**Lewatit® MDS 2368** is a food grade, macroporous, strongly acidic cation exchange resin based on a styrene-divinylbenzene copolymer. It is bead-shaped and has a special bead size distribution for use in chromatographic separation e. g. in the separation of sugar.

When using **Lewatit® MDS 2368** to treat potable water and the aqueous solutions listed above, special care should be given to the initial cycles of the new resin. Please refer to the recommended start-up conditions available on request.

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	Na <sup>+</sup>
Functional group	Sulfonic acid
Matrix	Styrenic
Structure	Macroporous
Appearance	Beige-gray, opaque

### Specified Data

Uniformity coefficient		max.	1.1
Mean bead size	d50	mm	0.34-0.40
Total capacity (delivery form)		min. eq/L	1.0

## Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 10%)	g/L	760
Density		approx. g/mL	1.2
Water retention (H <sup>+</sup> form)		approx. weight %	63-68
Stability pH range			5-14
Stability temperature range		°C	1-120
Storage time (after delivery)		min. years	0.5
Storage temperature range		°C	-20 - +40

## Operation

Operating temperature		max. °C	120
Operating pH range	during exhaustion		0-14
Bed depth for single column		min. mm	800
Back wash bed expansion per m/h (20°C)		%	15
Specific pressure loss kPa*h/m <sup>2</sup> (15°C)		kPa*h/m <sup>2</sup> (15°C)	3.5
Max. pressure loss during operation		kPa	250

## Regeneration

HCl regeneration	concentration	approx. wt. %	4-6
HCl regeneration	quantity co-current	min. g/L resin	100
HCl regeneration	quantity counter-current	min. g/L resin	55-65
H <sub>2</sub> SO <sub>4</sub> regeneration	concentration	approx. wt. %	1.5-3
H <sub>2</sub> SO <sub>4</sub> regeneration	quantity co-current	min. g/L resin	150
H <sub>2</sub> SO <sub>4</sub> regeneration	quantity counter-current	min. g/L resin	90
NaCl regeneration	concentration	approx. wt. %	8-10
NaCl regeneration	quantity co-current	min. g/L resin	200
NaCl regeneration	quantity counter-current	min. g/L resin	100
Regeneration contact time		min. minutes	20
Slow rinse at regeneration flow rate		min. BV	2
Fast rinse at service flow rate		min. BV	4

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.

**LENNTECH**  
WATER TREATMENT SOLUTIONS

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

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

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.

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