

Lewatit® MDS 4368 is a Food grade, macroporous anion exchange resin of medium basicity containing tertiary and quaternary amino groups, based on polystyrene. It is bead-shaped and has a special bead size distribution for use in chromatographic separation, e. g.:

- » separation of organic acids from sugar solutions

When using **Lewatit® MDS 4368** 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 Ion Exchange Resins.

General Description

Ionic form as shipped	free base/Cl ⁻
Functional group	tertiary/quaternary amine
Matrix	crosslinked polystyrene
Structure	macroporous
Appearance	beige

Physical and Chemical Properties

		metric units	
Uniformity Coefficient*		max.	1.1
Bead size*	> 90 %	mm	0.3 - 0.3 0 8
Bulk density	(+/- 5 %)	g/l	665
Density		approx. g/ml	1.04
Water retention		wt. %	59 - 64
Total capacity*		min. eq/l	1.4
Volume change	total swelling (delivered --> Cl ⁻)	typical vol. %	26
Volume change	operational swelling	typical vol. %	12
Stability	at pH-range		0 - 14
Stability	temperature range	°C	-20 - 100
Storability	of the product	max. years	2
Storability	temperature range	°C	-20 - 40

* Specification values subjected to continuous monitoring.

Recommended Operating Conditions*

	metric units	
Operating temperature	max. °C	70
Operating pH-range		0 - 8
Bed depth	min. mm	800
Specific pressure drop	at viscosity 1 mPa*s approx. kPa*h/m ²	2.1
Pressure drop	max. kPa	250
Linear velocity	backwash (20 °C) approx. m/h	1
Bed expansion	backwash (20 °C) approx. % per m/h	70
Freeboard	backwash (extern / intern) vol. %	80 - 100

* 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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For more information or a quote, please use the