

PRODUCT INFORMATION LEWATIT® MDS 1368 K 320



Lewatit® MDS 1368 K 320 is a food grade, gel-type, monodisperse, strongly acidic cation exchange resin based on a styrene-divinylbenzene copolymer. Due to its fine bead size it is specially suitable for chromatographic separation processes, e.g. ion exclusion of molasses.

When using **Lewatit® MDS 1368 K 320** 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.

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

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1/4

LANXESS
Energizing Chemistry

Common Description

Delivery form	K ⁺
Functional group	Sulfonic acid
Matrix	Crosslinked polystyrene
Structure	Gel
Appearance	Brown, translucent

Specified Data

	metric units	
Uniformity coefficient	max.	1.1
Mean bead size	microns	320 (+/- 30)
Total capacity	min. eq/L	1.8
Water retention	wt. %	47 - 51

Typical Physical and Chemical Properties

		Metrische Einheiten	
Bulk density	(+/- 5 %)	g/L	835
Density		approx. g/ml	1.27
Volume change	K ⁺ --> Na ⁺	max. vol. %	5
Pressure drop		max. kPa	200
Specific pressure drop	at 15°C	approx. kPa*h/m ²	4
Bed expansion	at 20°C, per m/h	vol. %	15
Stability	pH range		0 - 14
Stability	temperature range	°C	- 10 - + 100
Storability	of the product	max. years	2
Storability	temperature range	°C	- 10 - + 40

Recommended Start-up Conditions*

metric units			
OPERATION			
Operating temperature		max. °C	100
Operating pH-range			0 - 14
Bed depth		min. mm	800
Linear velocity	Exhaustion	max. m/h	7
Regenerant	Quantity	approx. g/L	8 - 100
Regenerant	Concentration	approx. wt. %	80 - 100
OTHER PARAMETERS			
Linear velocity	Backwash (20 °C)	approx. m/h	7
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.

** Regeneration progressive

*** 100m/h for polishing

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.

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For more information or a quote, please use the

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