PRODUCT INFORMATION
LEWATIT® MDS 1268 K 350

Lewatit ® MDS 1268 K 350 is a food grade, gel-type, monodisperse, strongly acidic cation exchange resin based on a styrene-divinylbenzene copolymer. Because of its fine bead size, it is particularly suitable for chromatographic separations, such as the ion exclusion of molasses.

If using **Lewatit ® MDS 1268 K 350** for the treatment of drinking water and the aqueous solutions mentioned above, the startup recommendations are to be observed, which are available on demand.

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	K^+
Functional group	Sulfonic acid
Matrix	Styrenic
Structure	Gel
Appearance	Light brown, transparent

Specified Data

Uniformity coefficient		max.	1.15
Mean bead size	d50	mm	0.32 - 0.38
Total capacity (H^+ form)		min. eq/L	1.5

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 10%)	g/L	830
Density		approx. g/mL	1.3
Water retention (H^+ form)		approx. weight %	55-67
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^2 (15°C)		kPa*h/m^2 (15°C)	4
Max. pressure loss during operation		kPa	200

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.