

PRODUCT INFORMATION

LEWATIT® S 2568



Lewatit® S 2568 is a Food grade, strongly acidic, macroporous cation exchange resin with beads of uniform size (monodisperse) based on a styrene-divinylbenzene copolymer.

Lewatit® S 2568 is especially applicable for:

- » decationisation of solutions of organic products, e.g. sugar beet, sugar cane, starch sugar, glycerine, gelatine, whey and food acids, etc.
- » extraction of amino acids, e.g. lysine
- » softening of solutions, especially of sugar thin juices

Lewatit® S 2568 is adding special features to the resin bed:

- » high exchange flow rates during regeneration and loading
- » good utilization of the capacity, low rinse water demand
- » homogeneous throughput of regenerants, water and solutions; therefore an homogeneous working zone
- » nearly linear pressure drop gradient for the whole bed depth; therefore an operation with higher bed depth possible
- » good separation behaviour of the components in a mixed bed application

When using **Lewatit® S 2568** 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.

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General Description

Ionic form as shipped	Na ⁺
Functional group	sulfonic acid
Matrix	crosslinked polystyrene
Structure	macroporous
Appearance	beige-grau, opaque

Physical and Chemical Properties

	metric units	
Uniformity Coefficient*	max.	1.1
Mean bead size*	mm	0.65 (+/- 0.05)
Bulk density (+/- 5 %)	g/l	740
Density	approx. g/ml	1.24
Water retention	wt. %	52 - 57
Total capacity*	min. eq/l	1.7
Volume change Na ⁺ --> H ⁺	max. vol. %	8
Stability at pH-range		0 - 14
Storability of the product	max. years	2
Storability temperature range	°C	-20 - 40
Standard packaging	25 l polyethylene bag	

* Specification values subjected to continuous monitoring.

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Recommended Operating Conditions*

		metric units				
Operating temperature		max. °C	120			
Operating pH-range			0 - 14			
Bed depth		min. mm	800			
Specific pressure drop	(15 °C)	approx. kPa*h/m²	0.8			
Pressure drop		max. kPa	300			
Linear velocity	backwash (20 °C)	approx. m/h	10 - 12			
Bed expansion	(20 °C, per m/h)	approx. vol. %	4			
Freeboard	backwash (extern / intern)	vol. %	60			
Regenerant			HCl	H ₂ SO ₄	NaCl	
Counter current regeneration	level	approx. g/l	HCl H ₂ SO ₄ NaCl	60 100 100		
Linear velocity	regeneration	approx. m/h	HCl H ₂ SO ₄ NaCl	10 5 5	5 - 20	
Linear velocity	rinsing	approx. m/h	HCl H ₂ SO ₄ NaCl	10 5 5	5 - 20	
Rinse water requirement	slow / fast	approx. BV	HCl H ₂ SO ₄ NaCl	2.5 2.5 2.5		
Co current regeneration	level	approx. g/l	HCl H ₂ SO ₄ NaCl	100 150 200		
Co current regeneration	concentration	approx. wt. %	HCl H ₂ SO ₄ NaCl	4 1.5 8	- / -	6 3** 10

* 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

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.

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

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