

Lewatit® S 7468 is a Food grade, strongly basic, macroporous anion exchange resin (type II) with beads of uniform size (monodisperse) based on a styrene-divinylbenzene copolymer, designed for demineralization and decolorization applications. Due to its special macroporous structure **Lewatit® S 7468** stands for effective adsorption and desorption of organic substances.

Lewatit® S 7468 is especially suitable for:

- » demineralization of water for food applications operated with co-current or modern counter-current systems like e.g. Lewatit® WS System, Lewatit® Liftbed System or Lewatit® Rinsebed System
- » polishing systems or conventional mixed bed arrangement in combination with **Lewatit® S 2568 H**
- » working mixed bed in combination with **Lewatit® S 2568 H**

Lewatit® S 7468 adds special features to the resin bed:

- » high flow rates during regeneration and loading
- » good utilization of the total capacity
- » low rinse water requirement
- » homogeneous throughput of regenerants, water and solutions, resulting in a homogeneous operating zone
- » virtually linear pressure drop gradient across the entire bed depth, allowing operation with higher bed depths
- » good separation of the components in mixed bed applications

When using **Lewatit® S 7468** 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	Cl ⁻
Functional group	quaternary amine, type II
Matrix	crosslinked polystyrene
Structure	macroporous
Appearance	beige, opaque

Physical and Chemical Properties

		metric units	
Uniformity Coefficient*		max.	1.1
Mean bead size*		mm	0.6 (+/- 0.05)
Bulk density (+/- 5 %)		g/l	630
Density		approx. g/ml	1.10
Water retention		wt. %	58 - 63
Total capacity*		min. eq/l	1.0
Volume change Cl ⁻ --> OH ⁻		max. vol. %	15
Stability at pH-range			0 - 14
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	40		
Operating pH-range			0	-	12
Bed depth		min. mm	800		
Specific pressure drop	(15 °C)	approx. kPa*h/m ²	1.0		
Pressure drop		max. kPa	300		
Linear velocity	operation	max. m/h	50		
Linear velocity	backwash (20 °C)	approx. m/h	10		
Bed expansion	backwash (20 °C)	approx. % per m/h	7		
Freeboard	backwash (extern / intern)	vol. %	100		
Regenerant			NaOH		
Counter current regeneration	level	approx. g/l	40	-	60
WS-System	concentration	approx. wt. %	2	-	4
Linear velocity	regeneration	approx. m/h	5		
Linear velocity	rinsing	approx. m/h	5		
Rinse water requirement	slow / fast	approx. BV	3.5		
Co current regeneration	level	approx. g/l	100		
Co current regeneration	concentration	approx. wt. %	3	-	5
Linear velocity	regeneration	approx. m/h	5		
Linear velocity	rinsing	approx. m/h	5		
Rinse water requirement	slow / fast	approx. BV	7		

* 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.

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

Edition: 2011-10-13
Previous Edition: 2011-05-12

4/4

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