

Lewatit® S 1567 is a food grade, strongly acidic cation exchange resin with beads of uniform size (monodisperse) based on a styrene-divinylbenzene copolymer. **Lewatit® S 1567** is manufactured without the use of solvent.

The monodisperse beads are chemically and osmotically very stable, and they can effectively be disinfected for the drinking water processing. The optimized kinetics lead to an increased operating capacity compared to ion exchange resins with heterodisperse bead size distribution.

Lewatit® S 1567 is especially applicable for:

- » softening in special systems with regular disinfection
- » softening of drinking water

Lewatit® S 1567 is adding special features to the resin bed:

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

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 Corporation.

Common Description

Delivery form	Na ⁺
Functional group	sulfonic acid
Matrix	styrenic
Structure	gel
Appearance	dark brown

Specified Data

		US Units			
Uniformity coefficient				max.	1.1
Mean bead size	d50			mm	0.60 (+-0.05)
Total capacity (delivery form)		kgr/ft ³	43.7	min. eq/L	1.8

Typical Physical and Chemical Properties

		US Units		Metric Units	
Bulk density for shipment	(+/- 5%)	lb/ft ³	50.6	g/L	810
Density				approx. g/mL	1.28
Water retention (delivery form)				approx. weight %	44-50
Stability pH range					0-14
Storability temperature range				°C	-20 - +40

Operation

		US Units		Metric Units	
Operating temperature		max. °F	248	max. °C	120
Operating pH range	during exhaustion				5-8
Bed depth for single column		min. inches	31.5	min. mm	800
Back wash bed expansion per m/h (20°C)				%	4
Specific pressure loss (15°C)				kPa*h/m ²	1
Max. pressure loss during operation		PSI	29	kPa	200
Specific flow rate		max. gpm/ft ³	5	max. BV/h	40

Regeneration

		US Units		Metric Units	
NaCl regeneration	concentration	approx. wt. %		approx. wt. %	8-12
NaCl regeneration	quantity co-current	min. lb/ft ³	6.3	min. g/L resin	100
NaCl regeneration	quantity counter-current	min. lb/ft ³		min. g/L resin	70
Regeneration contact time		min. minutes		min. minutes	20
Slow rinse at regeneration flow rate		min. gal/ft ³	15.0	min. BV	2
Fast rinse at service flow rate		min. gal/ft ³	15.0	min. BV	2

Additional Information & Regulations

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE OF PRODUCTS MENTIONED HEREIN IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING ANY PRODUCT, ALWAYS READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Safety precautions

Strong oxidants, e.g. nitric acid, can cause violent reactions if they come into contact with ion exchange resins.

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 conditions

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.

Storage time

The recommended storage time for this product is explained in the technical document "Technical guidelines on the storage of Lewatit® ion exchange resins" available for download on our website. Please use the following link for more information: <https://lanxess.com/en/products-and-brands/brands/lewatit/literature>

Packaging

The experience has shown that the packaging stability for reliable resin containment is limited to 24 months under the storage conditions described within the product safety information. It is therefore recommended to use the product within this time frame; otherwise the packaging condition should be checked regularly.

PRODUCT INFORMATION

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

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