

Lewatit® S 8528 is a food grade, macroporous, weakly acidic cation exchange resin based on a crosslinked polyacrylate. It is bead-shaped and has a special bead size distribution for use in the following processes:

- Standard co current regenerated system
- Standard mixed bed system
- Applications in the food industry and for drinking water production

In its hydrogen form, the **Lewatit® S 8528** is suitable for the decationisation and softening of tap water sugar solutions and solutions of organic products, e.g. sugar beet, sugar cane, starch sugar, glycerin, gelatine etc.

Since it has a low regenerant requirement, **Lewatit® S 8528** is a particularly economical product for the decarbonisation of drinking water and liquids which are either used as foodstuffs or in the production of foodstuffs.

When using **Lewatit® S 8528** 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 Corporation.

PRODUCT INFORMATION

LEWATIT® S 8528



Common Description

Delivery form	H ⁺
Functional group	Carboxylic acid
Matrix	Crosslinked polyacrylate
Structure	Macroporous
Appearance	Yellow, opaque

Specified Data

		US Units			
Uniformity coefficient				max.	1.8
Range of size for ≥90 vol% of all beads				mm	0.4-1.6
Effective size	d10			mm	0.48-0.58
Total capacity (delivery form)		kg/ft ³	93.9	min. eq/L	4.3

Typical Physical and Chemical Properties

		US Units		Metric Units	
Bulk density for shipment	(+/- 5%)	lb/ft³	46.9	g/L	750
Density				approx. g/mL	1.2
Water retention (delivery form)				approx. weight %	43-48
Volume change (H ⁺ - Na ⁺)				max. approx. %	70
Stability pH range					0-14
Stability temperature range				°C	1-70
Storage time (after delivery)				max. years	1
Storability temperature range				°C	-20 - +40

Operation

		US Units		Metric Units	
Operating temperature		max. °F	167	max. °C	75
Operating temperature (w/o oxygen)				max. °C	95
Operating pH range	during exhaustion				5-14
Bed depth for single column		min. inches	31.5	min. mm	800
Bed depth per component in mixed bed		min. inches	19.7	min. mm	500
Back wash bed expansion per m/h (20°C)				%	4
Specific pressure loss (15°C)				kPa*h/m²	1.1
Max. pressure loss during operation		PSI	36	kPa	250
Specific flow rate		max. gpm/ft³		max. BV/h	5
Freeboard	during backwash			min. vol. %	60-80

Regeneration

		US Units		Metric Units	
HCl regeneration	concentration	approx. wt. %	3-6	approx. wt. %	3-6
HCl regeneration	quantity co-current	min. lb/ft³	7.5	min. g/L resin	120
H ₂ SO ₄ regeneration	concentration	approx. wt. %	0.5-0.8	approx. wt. %	0.5 - 0.8
H ₂ SO ₄ regeneration	quantity co-current	min. lb/ft³	9.4	min. g/L resin	150
Regeneration contact time		min. minutes	20	min. minutes	20
Slow rinse at regeneration flow rate		min. gal/ft³	15.0	min. BV	2
Fast rinse at service flow rate		min. gal/ft³	30.0	min. BV	4

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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Head Office: 54/18 Bui Quang La, An Hoi Tay Ward, HCMC, Vietnam
Branch Office: 77 Dong Hung Thuan 10B, Dong Hung Thuan Ward, HCMC, Vietnam
Phone: (028) 6258 5368 – (028) 6291 9568
Email: info@atswatertechnology.com
Website: www.atswatertechnology.com

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LANXESS Corporation
111 RIDC Park West Dr
12275-1112 Pittsburgh-Allegheny
USA

+1-800-678-0020
lewatit@lanxess.com

www.lanxess.com
www.lpt.lanxess.com

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

Edition: 2025-05-19
Previous Edition: 2024-09-03