

Lewatit® ASB 1 is a premium grade, gel, strong base, Type 1, anion exchange resin based on a styrene / DVB polymer. **Lewatit® ASB 1** is especially suited for high purity separate bed, or mixed bed applications, where silica reduction of the treated water is a critical requirement.

Lewatit® ASB 1 exhibits a high ion exchange capacity combined with excellent mechanical and osmotic strength for a long operating life. **Lewatit® ASB 1** is supplied in a heterodispersed particle size distribution.

Lewatit® ASB 1 is prepared with a minimum amount of fines resulting in low pressure losses during service.

Lewatit® ASB 1 is supplied in the chloride form. It is also available in its hydroxide form, designated as **Lewatit® ASB 1 OH**.

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	Cl ⁻
Functional group	quaternary ammonium type 1
Matrix	styrenic
Structure	gel
Appearance	yellow, translucent

Specified Data

		US Units			
Uniformity coefficient				max.	1.6
Range of size for ≥90 vol% of all beads				mm	0.3 - 1.25
Effective size	d10			mm	0.49 (+/- 0.07)
Total capacity (delivery form)		kg/ft ³	30.6	min. eq/L	1.4

Typical Physical and Chemical Properties

		US Units		Metric Units	
Bulk density for shipment	(+/- 5%)	lb/ft³	43.8	g/L	700
Density				approx. g/mL	1.09
Water retention (delivery form)				approx. weight %	43-48
Volume change (Cl⁻ -OH⁻)				max. approx. %	20
Stability pH range					0-14
Storability temperature range				°C	-20 - +40

Operation

		US Units		Metric Units	
Operating temperature		max. °F	158	max. °C	70
Operating pH range	during exhaustion				0-12
Bed depth for single column		min. inches	31.5	min. mm	800
Bed depth per component in mixed bed		min. inches		min. mm	500
Back wash bed expansion per m/h (20°C)				%	11
Specific pressure loss (15°C)				kPa*h/m²	1
Max. pressure loss during operation		PSI	29	kPa	200
Specific flow rate		max. gpm/ft³	8	max. BV/h	60

Regeneration

		US Units		Metric Units	
NaOH regeneration	concentration	approx. wt. %		approx. wt. %	2-6
NaOH regeneration	quantity co-current	min. lb/ft³	6.3	min. g/L resin	100
NaOH regeneration	quantity counter-current	min. lb/ft³		min. g/L resin	50
Regeneration contact time		min. minutes		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	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

LEWATIT® ASB1



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

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