

Lewatit® A 8073 is a medium basic (bifunctional), gelular anion exchange resin based on an acryldivinylbenzene copolymer of special bead size distribution.

Due to its acrylic structure **Lewatit® A 8073** stands for effective adsorption and desorption of naturally occuring organic substances (high resistance to organic fouling). Its very high total capacity and outstanding mechanical stability together with the excellent resistance to osmotic shock makes it unique for demineralization of water with a relatively high content of Free Mineral Acidity (FMA) and moderate ratio of weakly dissociated ions (SiO₂, CO₂).

Lewatit® A 8073 is especially suitable for the following applications:

- Demineralization of water for industrial steam generation operated with co-current or modern counter-current systems like e.g. Lewatit® WS System, Lewatit® Liftbed System or Lewatit® Rinsebed System
- · Removal of organic matter, especially from surface water
- · Arrangements with decarbonator for demineralization plants
- · Arrangements without a weakly dissociated anion exchanger for demineralization plants

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.

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

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Common Description

Delivery form	free base/Cl ⁻
Functional group	tertiary amine/ quaternary ammonium
Matrix	acrylic
Structure	gel
Appearance	ivory, opaque

Specified Data

		US Units			
Uniformity coefficient				max.	1.8
Effective size	d10			mm	0.50 - 0.75
Total capacity (delivery form)		kgr/ft³	27	min. eq/L	1.25

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Typical Physical and Chemical Properties

	US Units		Metric Units	
(+/- 5%)	lb/ft³	44	g/L	710
			approx. g/mL	1.06
			approx. weight %	56-64
			max. approx. %	14
				0-14
			max. years	2
			°C	-20 - +40
	(+/- 5%)	1		(+/- 5%) Ib/ft³ 44 g/L approx. g/mL approx. weight % max. approx. % max. years

Operation

		US Units		Metric Units	
Operating temperature		max. °F	86	max. °C	35
Operating pH range	during exhaustion				0-12
Bed depth for single column		min. inches	31	min. mm	800
Back wash bed expansion per m/h (20°C)				%	12
Specific pressure loss (15°C)				kPa*h/m²	1.1
Max. pressure loss during operation		PSI	22	kPa	150
Specific flow rate		max. gpm/ft3	6	max. BV/h	50

Regeneration

		US Units		Metric Units	
NaOH regeneration	concentration	approx. wt. %		approx. wt. %	2-6
NaOH regeneration	quantity co-current	min. lb/ft³	5.0	min. g/L resin	80
NaOH regeneration	quantity counter- current	min. lb/ft³	3.1	min. g/L resin	50
Regeneration contact time		min. minutes		min. minutes	30
Slow rinse at regeneration flow rate		min. gal/ft³	22	min. BV	3
Fast rinse at service flow rate		min. gal/ft³	37	min. BV	5

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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.

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.

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Note: The information contained in this publication is current as of the date of edition. Please contact LANXESS Corporation Inc. to determine if this publication has been revised.

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