

Lewatit® A 8072+ is a heterodisperse weakly basic anion exchange resin, based on a gel type acrylic-divinylbenzene matrix. Through the flexible acrylic structure the resin has an excellent chemical and physical stability and is ideal for demineralization water systems which have high organic fouling potential.

Lewatit® A 8072+ is able to adsorb and desorb effective naturally occurring organic substances.

Lewatit® A 8072+ shows an improved rinse water characteristic compared to standard **Lewatit® A 8072**. Its very high total capacity and outstanding mechanical stability together with the excellent resistance to osmotic shock makes it unique for all demineralisation applications, particularly in combination with a strong dissociated anion exchange resin if low silica leakages are required.

Lewatit® A 8072+ guarantees high economic efficiency concerning operation costs in demineralization applications.

Lewatit® A 8072+ is particularly 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
- » Removal of organic matter, especially from surface water

Due to an optimized bead size distribution **Lewatit® A 8072+** can be used with co flow and counter current systems.

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 Liquid Purification Technologies.

Common Description

Delivery form	free base
Functional group	tertiary amine
Matrix	acrylic
Structure	gel
Appearance	ivory, translucent

Specified Data

Uniformity coefficient			max.	1.6
Effective size	d10		mm	0.50 - 0.74
Fines	less than 0.315 mm		max. vol %	1
Total capacity (delivery form)			min. eq/L	1.4

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 10%)	g/L	710
Density		approx. g/mL	1.1
Water retention (delivery form)		approx. weight %	56-64
Volume change (free base - Cl)		max. approx. %	12
Stability pH range			0 -14

Operation

Operating temperature			max. °C	60
Bed depth for single column			min. mm	800
Back wash bed expansion per m/h (20°C)			%	15
Specific pressure loss kPa*h/m ² (15°C)			kPa*h/m ² (15°C)	1.1
Max. pressure loss during operation			kPa	150
Specific flow rate			max. BV/h	40

Regeneration

NaOH regeneration	concentration		approx. wt. %	2-6
NaOH regeneration	quantity co-current		min. g/L resin	80
NaOH regeneration	quantity counter-current		min. g/L resin	50
Regeneration contact time			min. minutes	30
Slow rinse at regeneration flow rate			min. BV	3
Fast rinse at service flow rate			min. BV	5

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.

Packaging

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

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



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For more information or a quote, please use the