PRODUCT INFORMATION
LEWATIT® A 8072

Lewatit® A 8072 is a weakly basic, gelular anion exchange resin based on an acryl-divinylbenzene copolymer of a special bead size distribution.

Due to its acrylic structure, **Lewatit® A 8072** is able to adsorb and desorb naturally occuring organic substances very effectively. Its high total capacity, its outstanding mechanical stability and its excellent resistance to osmotic shocks make it unique for all demineralization applications, particularly in combination with a strong basic anion exchange resin if low silica leakages are required.

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, Lewatit® Liftbed System or Lewatit® Rinsebed System
- Removal of organic matter, especially from surface water

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.	1.8
Effective size	d10	mm	0.50 - 0.75
Total capacity (delivery form)		min. eq/L	1.6

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 5%)	g/L	740
Density		approx. g/mL	1.07
Water retention (delivery form)		approx. weight %	53-61
Volume change (free base - Cl^-)		max. approx. %	25
Stability pH range			0 -14
Storage time (after delivery)		max. years	2
Storage temperature range		°C	-20 - +40

Operation

Operating temperature		max. °C	60
Operating pH range	during exhaustion		0-8
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	50

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	60
Regeneration contact time		min. minutes	30
Slow rinse at regeneration flow rate		min. BV	5
Fast rinse at service flow rate		min. BV	10

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.