ATS WATER TECHNOLOGY

PRODUCT INFORMATION
LEWATIT® S 5128

Lewatit®

Lewatit® S 5128 is a food grade, gelular, strongly basic anion exchange resin (type I) based on an acryl-divinylbenzene copolymer of a special bead size distribution.

Due to its acrylic structure, **Lewatit® S 5128** stands for effective adsorption and desorption of naturally occuring organic substances. Its very high total capacity and outstanding mechanical stability together with the excellent resistance to osmotic shock makes it unique for all demineralization applications especially if a low silica leakage is required.

Lewatit® S 5128 is especially suitable for:

» the treatment and demineralization of process water used in the food industry
» the removal of organic matters (NOM), specially from surface water

In case **Lewatit® S 5128** is used to treat the aqueous solutions mentioned above, a special start-up procedure has to be applied. This information is available upon 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.

Common Description

Delivery form	Cl^-
Functional group	quaternary ammonium type 1
Matrix	acrylic
Structure	gel
Appearance	ivory, opaque

Specified Data

		US Units			
Uniformity coefficient				max.	1.8
Effective size	d10			mm	0.50-0.75
Fines	less than 0.315 mm			max. vol %	0.5
Total capacity (delivery form)		kgr/ft³	27.29	min. eq/L	1.35

Typical Physical and Chemical Properties

		US Units		Metric Units	
Bulk density for shipment	(+/- 5%)	lb/ft³	45.6	g/L	730
Density				approx. g/mL	1.09
Water retention (delivery form)				approx. weight %	48-55
Volume change (Cl^- -OH^-)				max. approx. %	25
Stability pH range					0-14
Storability temperature range				°C	-20 - +40

Operation

		US Units		Metric Units	
Operating temperature		max. °F	86	max. °C	30
Operating pH range	during exhaustion				0-12
Bed depth for single column		min. inches	31.5	min. mm	800
Back wash bed expansion per m/h (20°C)				%	10
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	0.63	max. BV/h	5-25
Freeboard	during backwash			min. vol. %	80-100

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	70
Regeneration contact time		min. minutes		min. minutes	20
Slow rinse at regeneration flow rate		min. gal/ft³	29.9	min. BV	4
Fast rinse at service flow rate		min. gal/ft³	59.8	min. BV	8

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.

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