ATS WATER TECHNOLOGY

PRODUCT INFORMATION
LEWATIT® C 267

Lewatit®

Lewatit® C 267 is a premium grade, standard cross-linked, gel, strong acid cation exchange resin based on a styrene/DVB polymer.

Lewatit® C 267 is specially suited for industrial water treatment applications including demineralization.

Lewatit® C 267 can be used in both single bed and mixed bed applications.

Lewatit® C 267 features a high ion exchange capacity combined with excellent mechanical and osmotic stabilities.

Lewatit® C 267 is supplied in the form of spherical beads with a heterodisperse particle size distribution and has a minimum content of fines resulting in low pressure drop during operation.

Lewatit® C 267 is supplied in the protonated form. It is also available in sodium form as **Lewatit® C 249**.
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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	H^+
Functional group	sulfonic acid
Matrix	styrenic
Structure	gel
Appearance	brown, black

Specified Data

		US Units			
Uniformity coefficient				max.	1.6
Mean bead size (SBA component)	d50			mm	
Total capacity (delivery form)		kgr/ft^3	41.5	min. eq/L	1.9

Typical Physical and Chemical Properties

		US Units		Metric Units	
Bulk density for shipment	(+/- 5%)	lb/ft³	51.9	g/L	805
Density				approx. g/mL	1.2
Water retention (delivery form)				approx. weight %	49-55
Volume change (H^+ - Na^+)				max. approx. %	10
Stability pH range					0-14
Storability temperature range				°C	1

Operation

		US Units		Metric Units	
Operating temperature		max. °F	284	max. °C	140
Operating pH range	during exhaustion				2-14
Bed depth for single column		min. inches	31.5	min. mm	800
Back wash bed expansion per m/h (20°C)				%	4.5
Specific pressure loss (15°C)				kPa*h/m²	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	
HCl regeneration	concentration	approx. wt. %		approx. wt. %	4-6
HCl regeneration	quantity co-current	min. lb/ft³	6.3	min. g/L resin	100
HCl regeneration	quantity counter-current	min. lb/ft³	3.4	min. g/L resin	55
H_2SO_4 regeneration	concentration	approx. wt. %		approx. wt. %	1.5-8
H_2SO_4 regeneration	quantity co-current	min. lb/ft³	7.5	min. g/L resin	120
H_2SO_4 regeneration	quantity counter-current	min. lb/ft³	5.0	min. g/L resin	80
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.

	Safety precautions
Safety precautions	Strong oxidants, e.g. nitric acid, can cause violent reactions if they come into contact with ion exchange resins.
	Toxicity
Toxicity	The safety data sheet must be observed. It contains additional data on product description, transport, storage, handling, safety and ecology.
	Disposal
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
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.

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