

PRODUCT INFORMATION LEWATIT® C 266 NS



Lewatit® C 266 NS is a premium grade gelular strong acid cation exchange resin, in the sodium form, manufactured without the use of solvents.

Lewatit® C 266 NS is manufactured with a smaller effective bead size when compared to most standard softening resins. **Lewatit® C 266 NS** is characterized by having a greater surface area and shorter diffusion path, which results in improved kinetics and improved efficiency.

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 Ion Exchange Resins.

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

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General Description

Ionic form as shipped	Na ⁺
Functional group	Sulfonic acid
Matrix	DVB / Styrene
Structure	Gel
Appearance	Black, translucent

Physical and Chemical Properties

		metric units	
Uniformity Coefficient*		max.	1.3
Bead size*		mm	
Effective size		mm	0.37 (+/- 0.06)
Bulk density	(+/- 5 %)	g/l	832
Density		approx. g/ml	1.26
Water retention*		wt. %	42 - 48
Total capacity*		min. eq/l	1.9
Volume change	Na ⁺ --> H ⁺	max. vol. %	5
Stability	at pH-range		0 - 14
Stability	temperature range	°C	1 - 140
Storability	of the product	max. years	2
Storability	temperature range	°C	-20 - 40

* Specification values subjected to continuous monitoring.

Recommended Operating Conditions*

			metric units
Operating pH-range			0 - 14
Pressure drop	psi/ft bed	max. kPa	
Specific flow rate	exhaustion	max. BV/h	8 - 48
Linear velocity	exhaustion	max. m/h	5 - 50
Freeboard	backwash	vol. %	65 - 75
Regenerant	type		NaCl / KCl
Regenerant	level	approx. g/l	64 - 320
Regenerant	concentration	approx. wt. %	8 - 13
Linear velocity	regeneration	m/h	1 - 10
Linear velocity	rinse, slow / fast	m/h	1 - 10 / 5 - 50
Volumetric flow rate	regeneration	BV/h	4 - 12
Volumetric flow rate	rinse, slow / fast	approx. BV/h	2.5 - 8 / 8 - 48
Rinse water requirement	slow / fast	approx. BV	1 - 2 / 2 - 5

* The recommended operating conditions refer to the use of the product under normal operating conditions. It is based on tests in pilot plants and data obtained from industrial applications. However, additional data are needed to calculate the resin volumes required for ion exchange units. These data are to be found in our Technical Information Sheets.

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.

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For more information or a quote, please use the

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