

PRODUCT INFORMATION LEWATIT® C 249 NS



Lewatit® C 249 NS is a premium grade gel, strong acid cation exchange resin supplied in its sodium form. **Lewatit® C 249 NS** is manufactured without using solvents. **Lewatit® C 249 NS** meets the highest standards of the residential and municipal water treatment industries. **Lewatit® C 249 NS** is in chemical compliance with FDA 21 CFR § 173.25.

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 ⁺
Matrix	DVB / Styrene
Structure	Gel
Appearance	Blackish brown, translucent

Physical and Chemical Properties

	metric units	
Uniformity Coefficient*	max.	1.6
Effective size*	mm	0.50 (+/- 0.06)
Bulk density (+/- 5 %)	g/l	832
Density	approx. g/ml	1.26
Water retention	wt. %	45 - 49
Total capacity*	min. eq/l	1.9
Stability at pH-range		0 - 14
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 temperature		max. °C	140
Operating pH-range			0 - 14
Bed depth		min. mm	800
Pressure drop	15 °C	max. kPa	280
Specific flow rate	exhaustion	max. BV/h	8 - 48
Linear velocity	exhaustion	max. m/h	5 - 50
Bed expansion	(20 °C, per m/h)	approx. vol. %	4
Freeboard	backwash (ext./int.), as % of bed depth	vol.-%	65 - 75
Regenerant	type		NaCl / KCl
Regenerant	level	approx. g/l	64 - 320
Regenerant	concentration	approx. wt. %	8 - 13
Linear velocity	regeneration	approx. m/h	
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.

This information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.



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For more information or a quote, please use the