

Lewatit® NM-60 is a highly regenerated mixed bed ion exchange resin consisting of a 1:1 chemically equivalent mixture of a type 1, strong base anion exchange resin and a strong acid cation exchange resin. **Lewatit® NM-60** is specially treated for high conversion and low TOC to meet the most exacting standards of high purity water industry.

Lewatit® NM-60 is especially suitable:

- » in mixed bed units for polishing after primary demineralization systems
- » in process industries
- » in electronic industries
- » in small industrial plants (e.g. refilling of starter batteries or coolant circuits)
- » for the removal of radioactive waste
- » in demineralization systems

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 ⁺ /OH ⁻
Functional group	quaternary ammonium, type 1 /sulfonic acid
Matrix	styrenic
Structure	gel
Appearance	dark brown, yellow, translucent

Specified Data

Uniformity coefficient		max.	1.8
Mixed bed test (column capacity)	0,02 MOhm*cm endpoint	min. eq/L	0.55
Mixed bed test (polishing quality)	NaCl exhaustion	min. MOhm*cm	16



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Typical Physical and Chemical Properties

		US Units		Metric Units	
Bulk density for shipment	(+/- 5%)	lb/ft ³	43.0	g/L	690
Density				approx. g/mL	1.1
Water retention (delivery form)				approx. weight %	50-60
Volume change (during exhaustion)				max. approx. %	-15
Stability pH range					0-14
Storage time (after delivery)				max. years	2
Storability temperature range				°C	-20 - +40

Operation

		US Units		Metric Units	
Operating temperature		max. °F	140	max. °C	60
Operating pH range	during exhaustion				0-14
Bed depth for single column		min. inches	23.6	min. mm	600
Specific pressure loss (15°C)				kPa*h/m ²	1.5
Max. pressure loss during operation		PSI	29	kPa	200
Specific flow rate		max. gpm/ft ³	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/ft ³	6.3	min. g/L resin	100
H ₂ SO ₄ regeneration	concentration	approx. wt. %		approx. wt. %	1.5-8
H ₂ SO ₄ regeneration	quantity co-current	min. lb/ft ³	7.5	min. g/L resin	120
NaOH regeneration	concentration	approx. wt. %		approx. wt. %	2-6
NaOH regeneration	quantity co-current	min. lb/ft ³	6.3	min. g/L resin	100
Regeneration contact time		min. minutes		min. minutes	20
Slow rinse at regeneration flow rate		min. gal/ft ³	15.0	min. BV	2
Fast rinse at service flow rate		min. gal/ft ³	15.0	min. BV	2



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

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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.

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.

PRODUCT INFORMATION

LEWATIT® NM 60



The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and application. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change with notice. It is expressly understood and agreed that you assume and hereby expressly release us from liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

Health and Safety Information: Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS Corporation products mentioned in this publication. For materials mentioned which are not LANXESS Corporation products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., *safety data sheets and product labels*. Consult your LANXESS Corporation representative or contact the Product Safety and Regulatory Affairs Department at LANXESS Corporation

Regulatory Compliance Information: Some of the end uses of the products described in this publication must comply with applicable regulations, such as the FDA, BfR, NSF, USDA, and CPSC. If you have any questions on the regulatory status of these products, contact - for business in the USA - the LANXESS Corporation Regulatory Affairs and Product Safety Department in Pittsburgh, PA, USA or for business outside US the Regulatory Affairs and Product Safety Department of LANXESS Deutschland GmbH in Germany.

Note: The information contained in this publication is current as of the date of edition. Please contact LANXESS Corporation Inc. to determine if this publication has been revised.

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