

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

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
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

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.

PRODUCT INFORMATION

LEWATIT® NM 60



Head Office: 54/18 Bui Quang La, Ward 12, Go Vap District, HCMC, Vietnam
Branch Office: 77 DHT10B, Dong Hung Thuan Ward, District 12, HCMC, Vietnam
Phone: (028) 6258 5368 – (028) 6291 9568
Email: info@atswatertechnology.com
Website: www.atswatertechnology.com

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 applications. 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 without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all 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.

LANXESS Corporation
111 RIDC Park West Dr
12275-1112 Pittsburgh-Allegheny
USA

+1-800-678-0020
lewatit@lanxess.com

www.lanxess.com
www.lpt.lanxess.com

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

Edition: 2025-05-19
Previous Edition: 2024-09-16

5/5

