



Lewatit® MonoPlus M 800 OH is a strongly basic, gelular anion exchange resin (type I) with beads of uniform size (monodisperse) based on a styrene-divinylbenzene copolymer, designed for all demineralization applications. The monodisperse beads have high chemical and osmotic stability. The extremely high monodispersity and very low fines content result in particularly low pressure losses compared with standard resins.

Lewatit® MonoPlus M 800 OH is especially suitable for:

- » conventional mixed bed application in combination with Lewatit® MonoPlus S 200 H or
- Lewatit® MonoPlus S 108 H
- » polishing using the Lewatit® Multistep System
- » condensate polishing in combination with Lewatit® MonoPlus S 200 H or

Lewatit® MonoPlus SP 112 H

Lewatit® MonoPlus M 800 OH adds special features to the resin bed:

- » high exchange flow rates during regeneration and loading
- » a good utilization of the total capacity
- » a low demand for rinse water
- » a homogeneous throughput of regenerants, water and solutions, resulting in a homogeneous operating zone
- » a virtually linear pressure drop gradient across the entire bed depth, allowing operation with higher bed depths
- » a good separation of the components in mixed bed applications

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.

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

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Common Description

Delivery form	OH [.]
Functional group	quaternary ammonium type 1
Matrix	styrenic
Structure	gel
Appearance	light brown, translucent

Specified Data

		US Units			
Uniformity coefficient				max.	1.1
Mean bead size	d50			mm	0.64 (+-0.05)
Total capacity (delivery form)		kgr/ft³	26.2	min. eq/L	1.2

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Typical Physical and Chemical Properties

		US Units		Metric Units	
Bulk density for shipment	(+/- 5%)	lb/ft³	42.5	g/L	680
Density				approx. g/mL	1.07
Water retention (delivery form)				approx. weight %	57-62
Volume change (OH ⁻ -Cl ⁻)				max. approx. %	-22
Stability pH range					0-14
Storability temperature range				°C	-20 - +40
Ionic conversion OH ⁻				min. eq. %	95

Operation

		US Units		Metric Units	
Operating temperature		max. °F	158	max. °C	70
Operating pH range	during exhaustion				0-12
Bed depth for single column		min. inches	31.5	min. mm	800
Bed depth per component in mixed bed		min. inches		min. mm	500
Back wash bed expansion per m/h (20°C)				%	10
Specific pressure loss (15°C)				kPa*h/m²	1
Max. pressure loss during operation		PSI	36	kPa	250
Specific flow rate		max. gpm/ft3	13	max. BV/h	100

Regeneration

		US Units		Metric Units	
NaOH regeneration	concentration	approx. wt. %		approx. wt. %	2-6
NaOH regeneration	quantity co-current	min. lb/ft³	6.3	min. g/L resin	100
NaOH regeneration	quantity counter- current	min. lb/ft³		min. g/L resin	50
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

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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.

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.

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