

Lewatit® MonoPlus MP 68 is a weakly basic, macroporous anion exchange resin with beads of uniform size (monodisperse) based on a styrene-divinylbenzene copolymer. The monodisperse beads are chemically and osmotically highly stable. The optimized kinetics lead to an increased operating capacity compared to ion exchange resins with heterodisperse bead size distribution.

Lewatit® MonoPlus MP 68 is especially applicable for:

- » the demineralization of water for industrial steam generation in combination with strong basic ion exchangers like **Lewatit® MonoPlus M 500** especially recommended for Lewatit WS System
- » the treatment of electroplating rinse waters
- » the demineralization of water with a high concentration of humic acids and other organic substances to protect the strong basic anion exchanger from fouling

Lewatit® MonoPlus MP 68 adds special features to the resin bed:

- » high exchange flow rates during regeneration and loading
- » an excellent utilization of the total capacity
- » a low rinse water demand
- » homogenous throughput of regenerants, water and solutions; therefore an homogeneous working zone
- » a nearly linear pressure drop gradient for the whole bed depth; therefore an operation with higher bed depth possible

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.

PRODUCT INFORMATION

LEWATIT® MonoPlus MP 68



Common Description

Delivery form	Free base/Cl ⁻
Functional group	tertiary amine/ quaternary ammonium
Matrix	styrenic
Structure	macroporous
Appearance	beige, opaque

Specified Data

		US Units			
Uniformity coefficient				max.	1.1
Mean bead size	d50			mm	0.55 (+/-0.05)
Total capacity (delivery form)		kg/ft ³	28.4	min. eq/L	1.3

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

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Typical Physical and Chemical Properties

		US Units		Metric Units	
Bulk density for shipment	(+/- 5%)	lb/ft³	38.8	g/L	620
Density				approx. g/mL	1.04
Water retention (delivery form)				approx. weight %	54-60
Volume change (free base / Cl - Cl)				max. approx. %	24
Stability pH range					0-14
Storability temperature range				°C	-20 - +40

Operation

		US Units		Metric Units	
Operating temperature		max. °F	158	max. °C	70
Operating pH range	during exhaustion				0-8
Bed depth for single column		min. inches	31.5	min. mm	800
Back wash bed expansion per m/h (20°C)				%	21
Specific pressure loss (15°C)				kPa*h/m²	1
Max. pressure loss during operation		PSI	44	kPa	300
Specific flow rate		max. gpm/ft³	5	max. BV/h	40

Regeneration

		US Units		Metric Units	
NaOH regeneration	concentration	approx. wt. %		approx. wt. %	2-6
NaOH regeneration	quantity co-current	min. lb/ft³	5.0	min. g/L resin	80
NaOH regeneration	quantity counter-current	min. lb/ft³		min. g/L resin	50
Regeneration contact time		min. minutes		min. minutes	30
Slow rinse at regeneration flow rate		min. gal/ft³	15.0	min. BV	2
Fast rinse at service flow rate		min. gal/ft³	29.9	min. BV	4

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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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