

Lewatit® MP 62 WS is a weakly basic, macroporous anion exchange resin with tertiary amino groups (monofunctional), hence of particularly low basicity. Its special bead size distribution, outstanding mechanical stability and high total and operating capacity makes it particularly suitable for the following applications:

- the use in Lewatit® WS Systems
- the use in Lewatit® VWS Systems
- groundwater and surface water decontamination by removal of e.g. chromate (CrO_4^{2-}), natural organic matter (NOM), heavy metal cyanides
- the recovery of noble metals, e.g. gold (Au) and silver (Ag) from cyanide solutions
- the deacidification of organic process streams, e.g. esters, ethers and aromatic hydrocarbons
- the removal of Bisphenol-A from waste water streams
- the purification of organic process streams

Due to its low density special care is recommended during backwash in order to avoid loss of resin.

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 Liquid Purification Technologies.

Common Description

Delivery form	Free base
Functional group	Tertiary amine
Matrix	Styrenic
Structure	Macroporous
Appearance	Beige, opaque

Specified Data

Uniformity coefficient		max.	1.6
Range of size for >90 vol% of all beads		mm	0.40-1.25
Effective size	d10	mm	0.55 (+/- 0.05)
Total capacity (delivery form)		min. eq/L	1.7

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 5%)	g/L	620
Density		approx. g/mL	1.03
Water retention (delivery form)		approx. weight %	50-55
Volume change (free base - Cl)		max. approx. %	45
Stability pH range			0-14
Stability temperature range		°C	1-130
Storage temperature range		°C	-20 - +40

Operation

Operating temperature		max. °C	130
Operating pH range	during exhaustion		0-8
Bed depth for single column		min. mm	800
Back wash bed expansion per m/h (20°C)		%	30
Max. pressure loss during operation		kPa	250
Specific flow rate		max. BV/h	20
Freeboard	during backwash	min. vol. %	100-120

Regeneration

NaOH regeneration	concentration	approx. wt. %	2-6
NaOH regeneration	quantity co-current	min. g/L resin	80
NaOH regeneration	quantity counter-current	min. g/L resin	60
Regeneration contact time		min. minutes	30
Slow rinse at regeneration flow rate		min. BV	2
Fast rinse at service flow rate		min. BV	4

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

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 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 above. It is therefore recommended to use the product within this time frame; otherwise the packaging condition should be checked regularly.

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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