

Lewatit® K 6362 is a strongly basic (type I), gel-type resin based on a styrene-divinylbenzene copolymer with a very narrow bead size distribution (monodisperse grade). Compared to conventional heterodisperse resins it offers better kinetics along with improved mechanical and osmotic stabilities.

In its delivered chloride form, **Lewatit® K 6362** can be used in the following applications:

- Recovery of precious metal cyano and chloro complexes from waste water or process streams
- Removal of anionic heavy metal complexes from hydrochloric acid
- Recovery of uranium from both carbonate and sulfuric acid leach solutions

In its OH form **Lewatit® K 6362** is particularly suitable for:

- The removal of mercaptane sulfur from hydrocarbon streams
- Catalysis of organic reactions of small polar molecules in the temperature range from 30 to 60 °C

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	Cl ⁻
Functional group	Quaternary ammonium salt, type 1
Matrix	Styrenic
Structure	Gel
Appearance	Light yellow, translucent

Specified Data

Uniformity coefficient		max.	1.1
Mean bead size	d50	mm	0.62 (+/-0.05)
Total capacity (delivery form)		min. eq/L	1.3

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 5%)	g/L	690
Density		approx. g/mL	1.08
Water retention (delivery form)		approx. weight %	48-55
Volume change (Cl ⁻ -OH ⁻)		max. approx. %	22
Stability pH range			0-14
Storage temperature range		°C	-20 - +40

Operation

Operating temperature		max. °C	70
Operating pH range	during exhaustion		0-12
Bed depth for single column		min. mm	1000
Back wash bed expansion per m/h (20°C)		%	11
Specific pressure loss kPa*h/m ² (15°C)		kPa*h/m ² (15°C)	1.0
Max. pressure loss during operation		kPa	250

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

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.

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.

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