ATS WATER TECHNOLOGY

PRODUCT INFORMATION
LEWATIT® K 6362

Lewatit®

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 Corporation.

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

		Metric Units	
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
Storability temperature range		°C	-20 - +40

Operation

		Metric Units	
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 (15°C)		$kPa*h/m^2$	1.0
Max. pressure loss during operation		kPa	250

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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