

**LEWATIT® K 6462** is a strongly basic, gelular anion exchange resin with beads of uniform size (monodisperse) based on a styrene-divinylbenzene copolymer. The higher DVB content results in increased operating capacities as well as improved mechanical and osmotic stabilities.

**LEWATIT® K 6462** is especially applicable for the following applications:

- The extraction and recovery of anionic heavy metal complexes from cyanide and chloride containing solutions
- The recovery of uranium from both sulfuric acid and carbonate leach solutions

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® K 6462



### Common Description

Functional group	Quaternary ammonium salt, type 1
Matrix	Styrenic
Structure	Gel
Appearance	Yellow, translucent

### Specified Data

		US Units			
Uniformity coefficient				max.	1.1
Mean bead size	d50			mm	0.59 (+0.05)
Total capacity (delivery form)		kg/ft <sup>3</sup>	30.6	min. eq/L	1.4

### Typical Physical and Chemical Properties

		Metric Units	
Bulk density for shipment	(+/- 5%)	g/L	670
Density		approx. g/mL	1.08
Water retention (delivery form)		approx. weight %	45-50
Volume change (Cl <sup>-</sup> -OH <sup>-</sup> )		max. approx. %	20
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)		%	10
Specific pressure loss (15°C)		kPa*h/m <sup>2</sup>	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.

<b>Safety precautions</b>	<b>Safety precautions</b> Strong oxidants, e.g. nitric acid, can cause violent reactions if they come into contact with ion exchange resins.
<b>Toxicity</b>	<b>Toxicity</b> The safety data sheet must be observed. It contains additional data on product description, transport, storage, handling, safety and ecology.
<b>Disposal</b>	<b>Disposal</b> 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.
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## LEWATIT® K 6462



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

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