

Lewatit® K 6367 is a strongly basic, gel-type resin (type-1) on the basis of a polystyrene-DVB copolymer with a monodisperse bead size distribution, i.e. beads of almost the same size. Its significantly higher mean particle size offers the following advantages over “standard grade” strong base anion exchange resins:

- Lower dynamic pressure drop at the same flow rate
- Diminished risk of the accumulation of suspended solids and clogging
- Higher linear velocities in fluidized bed systems due to lower bed expansion rates
- Easier screening and sieving during resin/feed separation and thus less resin losses

Lewatit® K 6367 resin can be employed for:

- The removal of precious metal cyano and chloro complexes from waste water or process streams
- The removal of anionic heavy metal complexes from hydrochloric acid
- The recovery of uranium from both carbonate as well as acid leach solutions, especially in fluidized bed (e.g. NIMCIX columns) and fixed bed systems

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, type 1
Matrix	Styrenic
Structure	Gel
Appearance	Light yellow, translucent

Specified Data

Uniformity coefficient		max.	1.2
Mean bead size	d50	mm	0.92 (+/-0.05)
Total capacity (delivery form)		min. eq/L	1.2

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 5%)	g/L	630
Water retention (delivery form)		approx. weight %	49-54
Volume change (Cl ⁻ -OH ⁻)		max. approx. %	20
Stability pH range			0-14
Stability temperature range		°C	1-70
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
Max. pressure loss during operation		kPa	250

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



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