

Lewatit® K 6387 is a strongly basic, bead shaped, monodisperse, gelular type-I anion exchange resin based on a styrene-divinylbenzene copolymer.

Lewatit® K 6387 is specially suitable for :

- » Life time extension of acid baths (acid retardation process)
- » Chromatographic separation and ion exclusion processes
- » Demineralization (in hydroxide form) of water and aqueous solutions

Its high total capacity in combination with the fine bead size offers best kineties and outstanding operational capacities. When using **Lewatit® K 6387** to treat potable water and aqueous solutions, special care should be given to the initial conditioning of the new resin. Please refer to the recommended start-up conditions contained in this data sheet.

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 Ion Exchange Resins.

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

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General Description

Ionic form as shipped	Cl ⁻
Functional group	quaternary amine, type I
Matrix	crosslinked polystyrene
Structure	gel type beads
Appearance	yellow, translucent

Physical and Chemical Properties

		metric units	
Uniformity Coefficient	*	max.	1.1
Mean bead size*		mm	0.3 (+/- 0.0)
			9 5
Bulk density	(+/- 5 %)	g/l	700
Density		approx. g/ml	1.10
Water retention		wt. %	48 - 55
Total capacity*		min. eq/l	1.5
Volume change	Cl ⁻ > OH ⁻	max. vol. %	25
Stability	at pH-range		0 - 14
Storability	of the product	max. years	2
Storability	temperature range	℃	- 20 - 70

^{*} Specification values subjected to continuous monitoring.

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Recommended Operating Conditions*

		metric units				
Operating temperature		max. ℃	OH: 70 CI: 90			
Operating pH-range			0 - 12			
Bed depth		min. mm	800			
Specific pressure drop	(15 ℃)	approx. kPa*h/m²	2.8			
Pressure drop		max. kPa	200			
Linear velocity	operation	max. m/h	water: sugar:	5 1	-	40 5
Linear velocity	backwash (20 °C)	approx. m/h	7	-	9	
Bed expansion	(20 °C, per m/h)	approx. vol. %	25			
Freeboard	backwash (extern / intern)	vol. %	80	0 -	100	
Regenerant			NaOH NaCl + NaOH			
Counter current regeneration	level	approx. g/l	NaOH :	50	-	80
			NaCl + NaOH :		200 20	
WS-System	concentration	approx. wt. %	NaOH :		4	
			NaCl		10	
			+ NaOH :	1	-	2
Linear velocity	regeneration	approx. m/h	5			
Linear velocity	rinsing	approx. m/h	5			
Rinse water requirement	slow / fast	approx. BV	4			

^{*} The recommended operating conditions refer to the use of the product under normal operating conditions. It is based on tests in pilot plants and data obtained from industrial applications. However, additional data are needed to calculate the resin volumes required for ion exchange units. These data are to be found in our Technical Information Sheets.

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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.

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