

Lewatit® K 1221 is a strongly acidic, gel-type, polymer-based resin in spherical bead form with a very narrow bead size distribution and ideally suited for processing liquid organic media. It has a low degree of crosslinking, good mechanical stability and gives optimum performance in polar media.

Lewatit® K 1221 is suitable for the following applications:

- Bisphenol-A production
- Condensation and esterification of small polar molecules
- Hydrolysis of ethers and esters

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

Functional group	sulfonic
Matrix	styrenic
Structure	gel
Appearance	translucent

Specified Data

Uniformity coefficient		max.	1.6
Range of size for >90 vol% of all beads		mm	0.40-1.25
Effective size	d10	mm	0.50-0.61
Total capacity (delivery form)		min. eq/L	1.2

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

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 5%)	g/L	760
Density		approx. g/mL	1.13
Water retention (delivery form)		approx. weight %	64-69
Stability temperature range		°C	1-130
Storage time (after delivery)		max. years	0.5
Storage temperature range		°C	-20 - +40

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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.

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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