PRODUCT INFORMATION
LEWATIT® K 1221

Lewatit® K 1221 is a strongly acidic, gel-type, polymer-based resin in spherical bead form with sulfonic acid groups and is ideally suited as a heterogeneous catalyst for organic reactions.

It has a low degree of crosslinking, good mechanical stability and gives optimum performance in polar media.

Therefore, it is especially suitable for use in the following applications:

» Bisphenol-A production. Condensations and esterifications 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 Ion Exchange Resins.

General Description

Ionic form as shipped	H^+
Functional group	sulfonic acid
Matrix	crosslinked polystyrene
Structure	gel type beads
Appearance	dark brown, translucent

Physical and Chemical Properties

		metric units	
Total capacity*		min. eq/l	1.2
Uniformity Coefficient*		max.	1.6
Bead size*	> 90 %	mm	0.4 - 1.25
Effective size*		mm	0.50 - 0.62
Fines*	< 0.315 mm	max. vol. %	0.5
Bulk density	(+/- 5 %)	g/l	760
Water retention		wt. %	65 - 69
Stability	temperature range	°C	-20 - 130
Storability	of the product	max. months	6
Storability	temperature range	°C	-20 - 40

* Specification values subjected to continuous monitoring.

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.

LENNTECH
Water Treatment Solutions
info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289

For more information or a quote, please use the

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