PRODUCT INFORMATION
LEWATIT® K 1161

Preliminary Product Information

Lewatit® K 1161 is a gel-type, polymer-based resin in spherical bead form with strongly acidic sulfonic acid groups. It possesses a monodisperse particle size distribution, i. e. beads of almost the same size. Due to its low degree of cross-linking and high mechanical stability it is ideally suited for the processing of liquid organic media, especially in 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

Delivery form	H^+
Functional group	sulfonic
Matrix	styrenic
Structure	gel
Appearance	brown, translucent

Specified Data

Uniformity coefficient		max.	1.1
Mean bead size	d50	mm	0.90-1.20
Total capacity (delivery form)		min. eq/L	0.7
Total capacity (dry resin)		min. eq/kg	5.0

Note: The values given in this paragraph are preliminary and can be subject to adjustments.

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 5%)	g/L	710
Water retention (delivery form)		approx. weight %	75-80
Stability temperature range		°C	1-130
Storage time (after delivery)		max. years	0.5
Storage temperature range		°C	-20 - +40

Note: The values given in this paragraph are preliminary and can be subject to adjustments.

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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