PRODUCT INFORMATION
LEWATIT® K 1137

Lewatit® K 1137 is a strongly acidic, gel-type, polymer-based resin in spherical bead form with a very narrow bead size distribution. It has a low degree of crosslinking and is partially loaded with a condensation promotor. **Lewatit® K 1137** is ideally suited for the use as heterogeneous catalyst in the production of Bisphenol-A (BPA).

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	translucent

Specified Data

Range of size for >90 vol% of all beads		mm	0.80-1.25*
Effective size	d10	mm	0.59-0.71*
Total capacity (delivery form)		min. eq/L	0.65*
Total capacity (dry resin)		min. eq/kg	5.0*
Promotion level		mol nitrogen/kg	0.80-1.05

* Value refers to the unpromoted product.

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 5%)	g/L	720
Density		approx. g/mL	1.07
Water retention (delivery form)		approx. weight %	78-82*
Stability temperature range		°C	1-130
Storage temperature range		°C	-20 - +40

* Value refers to the unpromoted product.

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 conditions
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.

Storage time
The recommended storage time for this product is explained in the technical document “Technical guidelines on the storage of Lewatit® ion exchange resins” available for download on our website. Please use the following link for more information: https://lanxess.com/en/products-and-brands/brands/lewatit/literature

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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