PRODUCT INFORMATION
LEWATIT® K 7333

Lewatit® K 7333 is a strongly basic, gel-type, palladium-doped, polymer-based resin in spherical bead form.

It is designed to catalytically remove dissolved oxygen from water. A suitable reducing agent such as hydrogen is dissolved in the water to be treated and then passed through a bed of the catalyst.

By this method, residual oxygen concentrations of less than 20 g/l can be obtained at flow rates up to 80 m/h and temperatures up to 40 °C.

Lewatit® K 7333 is especially suitable for the removal of dissolved oxygen in the production of ultrapure water.

Operating information: A loss of catalytic activity may be caused by the presence of poisons such as mercury, cadmium, sulfides, organic contaminants such as humates or by microbial growth. Maximum catalytic activity can only be maintained in the presence of sufficient quantities of dissolved reducing agent.

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	OH^- / Pd^0
Functional group	quaternary amine, type I
Matrix	crosslinked polystyrene
Structure	gel type beads
Appearance	light yellow, translucent

Physical and Chemical Properties

		metric units	
Uniformity Coefficient*		max.	1.1
Mean bead size*		mm	0.6 (+/- 0.0) 4 5
Bulk density	(+/- 5 %)	g/l	680
Density		approx. g/ml	1.07
Water retention		wt. %	62 - 67
Stability	temperature range	°C	-20 - 40
Storability	of the product	max. months	6
Storability	temperature range	°C	-20 - 30
Chloride content		max. mg/l	300

* Specification values subjected to continuous monitoring.

Recommended Operating Conditions*

		metric units	
Operating pH-range			5 - 14
Bed depth		min. mm	900
Specific pressure drop	(15 °C)	approx. kPa*h/m²	1.1
Pressure drop		max. kPa	150
Bed expansion	backwash (20 °C)	approx. % per m/h	8
Bed expansion	(20 °C, per m/h)	approx. vol. %	10
Freeboard	backwash (extern / intern)	vol. %	1

* 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.

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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For more information or a quote, please use the

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