ATS WATER TECHNOLOGY

PRODUCT INFORMATION
LEWATIT® TP 107

Lewatit®

PRELIMINARY PRODUCT INFORMATION

Lewatit® TP 107 is a strongly basic, macroporous anion exchange resin based on a crosslinked polyacrylate. It is supplied in a heterodisperse particle size distribution. Compared with conventional anion exchange resins it reveals exceptional operating capacities for trace contaminant removal from potable water, groundwater and wastewater.

Lewatit® TP 107 is particularly suitable for:

- The removal of chromate (hexavalent chromium, Cr(VI))
- The capture of anionic uranium species (uranylsulphato and uranylcarbonato complexes)
- The adsorption of multivalent oxyanions

In case **Lewatit® TP 107** is used for potable water treatment a special start-up procedure has to be applied which is available upon request. Country specific potable water approval certificates can be received as manufacturer's declaration.

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 Corporation.

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Common Description

Delivery form	Cl^-
Functional group	Quaternary ammonium
Matrix	Acrylic
Structure	Macroporous
Appearance	Yellow, opaque

Specified Data

		US Units			
Uniformity coefficient				max.	1.7
Effective size	d10			mm	0.49-0.65
Fines	less than 0.315 mm			max. vol %	1
Total capacity (delivery form)		kgr/ft^3	52	min. eq/L	2.4

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

Typical Physical and Chemical Properties

		US Units		Metric Units	
Bulk density for shipment	(+/- 10%)	lb/ft³	46	g/L	740
Water retention (delivery form)				approx. weight %	30-42
Volume change (Cl^- -OH^-)				max. approx. %	15
Stability pH range					0-14
Stability temperature range				°C	1-40
Storability temperature range				°C	-20 - +40

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

Operation

		US Units		Metric Units	
Operating temperature		max. °F	104	max. °C	40
Bed depth for single column		min. inches	31	min. mm	800
Specific pressure loss (15°C)				kPa*h/m²	1.0
Max. pressure loss during operation		PSI	36	kPa	250
Specific flow rate		max. gpm/ft3	4	max. BV/h	5-30

Additional Information & Regulations

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE OF PRODUCTS MENTIONED HEREIN IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING ANY PRODUCT, ALWAYS READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Safety precautions
Strong oxidants, e.g. nitric acid, can cause violent reactions if they come into contact with ion exchange resins.

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 within the product safety information. It is therefore recommended to use the product within this time frame; otherwise the packaging condition should be checked regularly.

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