

Lewatit® TP 108 is a gel-type polystyrene-based strong base anion exchange resin with a heterodisperse particle size distribution. In comparison with conventional strong base anion exchange resins its modified functional group facilitates a very selective uptake of per- and polyfluoralkyl substances (PFAS) from industrial waste water with a high background of chloride and sulphate.

Thus **Lewatit® TP 108** is particularly applicable for the removal of short and long chain PFAS to very low levels, including PFOA, PFOS, PFNA, PFHxA, PFHxS, PFBS and PFBA.

Lewatit® TP 108 can be used as well for the removal of other emerging contaminants that have an anionic amphiphilic character, e.g. synthetic hormones and pesticides.

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.

Common Description

Delivery form	Cl ⁻
Functional group	quarternary ammonium
Matrix	styrenic
Structure	gel
Appearance	white, opaque

Specified Data

Uniformity coefficient		max.	1.7
Effective size	d10	mm	0.46-0.61
Fines	less than 0.315 mm	max. vol %	1
Total capacity (delivery form)		min. eq/L	0.7

Typical Physical and Chemical Properties

	Metric Units	
Bulk density for shipment	g/L	690
Water retention (delivery form)	approx. weight %	33-43
Stability pH range		0-14
Stability temperature range	°C	1-80
Storability temperature range	°C	-20 - +40

Operation

			Metric Units	
Operating temperature			max. °C	80
Bed depth for single column			min. mm	800
Back wash bed expansion per m/h (20°C)			%	4
Specific pressure loss (15°C)			kPa*h/m²	1.2
Max. pressure loss during operation			kPa	250
Freeboard	during backwash		min. vol. %	80-100

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.

PRODUCT INFORMATION

LEWATIT® TP 108



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This document contains important information and must be read in its entirety.

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