PRODUCT INFORMATION
LEWATIT® TP 108

PRELIMINARY PRODUCT INFORMATION

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.

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	Cl^-
Functional group	quarternary ammonium
Matrix	styrenic
Structure	gel
Appearance	white, opaque

Specified Data

Uniformity coefficient		max.	1.7
Effective size	d10	mm	0.40-0.55
Fines	less than 0.315 mm	max. vol %	1
Total capacity (delivery form)		min. eq/L	0.65

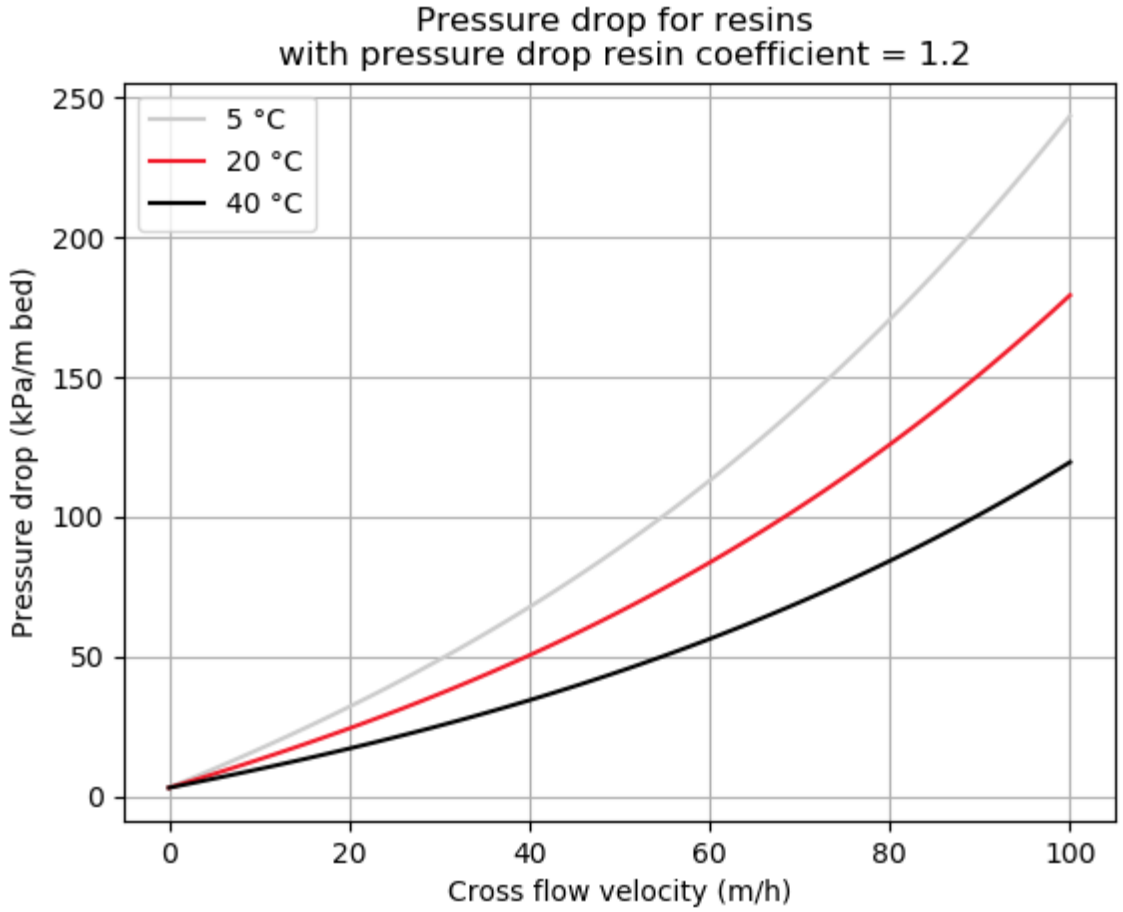
Note: The values given in this paragraph are preliminary and can be subject to adjustments.

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 5%)		g/L	690
Water retention (delivery form)			approx. weight %	27-47
Stability pH range				0-14
Stability temperature range			°C	1-80
Storage time (after delivery)			max. years	2
Storage temperature range			°C	-20 - +40

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

Operation



Operating temperature			max. °C	80
Bed depth for single column			min. mm	800
Max. pressure loss during operation			kPa	250
Freeboard	during backwash		min. vol. %	80-100

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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