

Lewatit® VP OC 1600 is a biopharmaceutical- and food-grade, macroporous adsorber resin without functional groups based on a polymethacrylate-divinylbenzene copolymer. This matrix facilitates its use for the immobilization of enzymes (especially lipases).

The following certificates and statements are available for **Lewatit® VP OC 1600**:

- Non-GMO
- TSE/BSE
- Allergens
- Heavy metals
- Halal
- Kosher
- EU regulation No 1935/2004 of the European Parliament and the Council of the European Union on materials and articles intended to come into contact with food
- Council of Europe Resolution ResAP(2004)3 on ion exchange and adsorbent resins used in the processing of foodstuffs
- EU regulation No 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food.
- ISO 9001 : 2015 Quality Management System specifications
- ISO 14001 : 2015 Environmental Management System requirements
- Please inform technical sales person in case FDA compliance is intended to apply.

If using **Lewatit® VP OC 1600** to treat potable water and the aqueous solutions listed above, special care should be given to the initial cycles of the new resin. Please refer to the recommended start-up conditions available on request.

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

Functional group	None
Matrix	Acrylic
Structure	Macroporous
Appearance	White, opaque

Specified Data

Uniformity coefficient		max.	1.8
Effective size	d10	mm	0.32-0.45
Fines	less than 0.315 mm	max. vol %	10

Typical Physical and Chemical Properties

Bulk density for shipment	(+/- 5%)	g/L	630
Density		approx. g/mL	1.07
Water retention (delivery form)		approx. weight %	55-60
Stability pH range			0-14
Storage temperature range		°C	-20 - +40

Operation

Operating temperature		max. °C	248
Operating pH range	during exhaustion		0-14
Bed depth for single column		min. mm	1000
Back wash bed expansion per m/h (20°C)		%	30
Specific pressure loss kPa*h/m ² (15°C)		kPa*h/m ² (15°C)	1
Max. pressure loss during operation		kPa	250

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.

This information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

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