

**Lewatit® Ultrapure 1295MD** is a “ready to use” mixed bed for polishing of Ultrapure Water in the hydrogen production or solar panel industry.

The high grade gel type components are purified to achieve highest purity water conditions.

The components are equivalently mixed.

The performance of each produced batch number of **Lewatit® Ultrapure 1295 MD** is controlled.

The gel type components have a narrow diameter distribution, thus the ready to use mixed bed can be easily separated for regeneration in mixed bed systems.

High metric flow rates with low pressure loss are possible.

You will receive **Lewatit® Ultrapure 1295 MD** in special packaging which avoids any external contamination.

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	H <sup>+</sup> /OH <sup>-</sup>
Functional group	Quaternary ammonium Typ1 /sulfonic acid
Matrix	Styrenic
Structure	Gel
Appearance	Dark brown, light brown, translucent

## Specified Data

Uniformity coefficient (SAC component)		max.	1.1
Uniformity coefficient (SBA component)		max.	1.1
Mean bead size (SAC component)	d50	mm	0.60 (+/-0.1)
Mean bead size (SBA component)	d50	mm	0.60 (+/-0.05)
Total capacity (SAC component H <sup>+</sup> form)		min. eq/L	2.0
Total capacity (SBA component OH <sup>-</sup> form)		min. eq/L	1.0

## Typical Physical and Chemical Properties

Ultrapure water rinse test (resistivity)	after 80 BV	min. MOhm*cm	18
Ultrapure water rinse test	delta TOC after 80 BV	max. ppb	5
Bulk density for shipment	(+/- 5%)	g/L	680
Water retention (SAC component H <sup>+</sup> form)		approx. weight %	47-53
Water retention (SBA component OH <sup>-</sup> form)		approx. weight %	58-70
Volume change (during exhaustion)		typical approx. %	-15
Storage temperature range		°C	-20 - +40

## Operation

Operating temperature		max. °C	40 (Recommended)
Operating pH range	during exhaustion		0-14
Bed depth for single column		min. mm	600
Specific pressure loss kPa*h/m <sup>2</sup> (15°C)		kPa*h/m <sup>2</sup> (15°C)	1
Max. pressure loss during operation		kPa	200
Specific flow rate		max. BV/h	50

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

## 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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