

## PRODUCT INFORMATION LEWATIT® S 100 G 1



**Lewatit® S 100 G1** is a heterodisperse strongly acidic, gelular cation exchange resin based on a styrene-divinylbenzene copolymer.

**Lewatit® S 100 G1** is dyed with a indicator, which indicates the exhaustion respectively the break through point of the ion exchanger by changing the colour in red.

**Lewatit® S 100 G1** is especially suitable for:

» the removal of cations from condensates upstream of a conductivity measuring point.

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.

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

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## Common Description

|                  |                |
|------------------|----------------|
| Delivery form    | H <sup>+</sup> |
| Functional group | Sulfonic acid  |
| Matrix           | Styrenic       |
| Structure        | Gel            |
| Appearance       | Brown          |

## Specified Data

|   |  |           |             |
|---|--|-----------|-------------|
| Uniformity coefficient                  |  | max.      | 1.6         |
| Range of size for >90 vol% of all beads |  | mm        | 0.315 -1.25 |
| Total capacity (delivery form)          |  | min. eq/L | 1.8         |

## Typical Physical and Chemical Properties

|                                 |          |                  |           |
|---------------------------------|----------|------------------|-----------|
| Bulk density for shipment       | (+/- 5%) | g/L              | 760       |
| Density                         |          | approx. g/mL     | 1.22      |
| Water retention (delivery form) |          | approx. weight % | 50-55     |
| Stability pH range              |          |                  | 0-14      |
| Storage temperature range       |          | °C               | -20 - +40 |

## Operation

|  |                   |           |      |
|--|-------------------|-----------|------|
| Operating temperature                  |                   | max. °C   | 100  |
| Operating pH range                     | during exhaustion |           | 2-14 |
| Back wash bed expansion per m/h (20°C) |                   | %         | 4.5  |
| Max. pressure loss during operation    |                   | kPa       | 150  |
| Specific flow rate                     |                   | max. BV/h | 50   |

## 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.

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