

**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.

## 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 time (after delivery)		max. years	2
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

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

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.

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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