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.

Common Description

Delivery form	H^+
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

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.

LANXESS Deutschland GmbH
Liquid Purification Technologies
Kennedyplatz 1
50569 Koeln
Germany

+49-221-8885-0
lewatit@lanxess.com

www.lanxess.com
www.lpt.lanxess.com