PRODUCT INFORMATION
LEWATIT® S 8227 Mg

Lewatit® S 8227 Mg is a food grade, macroporous, weakly acidic cation exchange resin based on a crosslinked polyacrylate. It is bead-shaped and has a special bead size distribution for use in household filter systems.

Lewatit® S 8227 Mg is partly charged with magnesium and sodium.

Lewatit® S 8227 Mg is suitable for the decarbonisation and softening of drinking water in household filter systems.

When using **Lewatit® S 8227 Mg** to treat potable water, special care should be given to the initial cycle 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 (LPT).

General Description

Ionic form as shipped	Na^+/Mg^{2+}
Functional group	Carboxylic acid
Matrix	Crosslinked polyacrylate
Structure	Macroporous
Appearance	White, opaque

Specified Data

		metric units	
Uniformity Coefficient		max.	1.8
Bead size	> 90 %	mm	0.4 - 1.6
Effective size		mm	0.57 (+/- 0.05)
Total capacity		min. eq/l	4.3

Physical and Chemical Properties

		metric units	
Bulk density	(+/- 5 %)	g/l	800
Density		approx. g/ml	1.20
Water retention		wt. %	52 - 58
Volume change	operational swelling	typical vol. %	- 30 (Mg,Na > Ca)
Stability	at pH-range		0 - 14
Stability	temperature range	°C	-20 - +70
Storability	of the product	max. years	1
Storability	temperature range	°C	-20 - +40

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.

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