

General Description

Ionic form as shipped	H ⁺
Functional group	sulfonic acid
Matrix	crosslinked polystyrene
Structure	macroporous
Appearance	beige-grey, opaque

Physical and Chemical Properties

	metric units	
Uniformity Coefficient*	max.	1.7
Bead size* > 90 %	mm	0.4 - 1.2 5
Effective size*	mm	0.4 - 0.5 8 8
Bulk density (+/- 5 %)	g/l	750
Density	approx. g/ml	1.1
Water retention	wt. %	65 - 75
Total capacity*	min. eq/l	1.0
Stability at pH-range		0 - 14
Storability of the product	max. years	2
Storability temperature range	°C	-20 - 40

* Specification values subjected to continuous monitoring.



WATER TREATMENT SOLUTIONS

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For more information or a quote, please use the

Recommended Operating Conditions*

		metric units	
Operating temperature		max. °C	120
Operating pH-range			0 - 14
Bed depth		min. mm	800
Specific pressure drop	(15 °C)	approx. kPa*h/m ²	1.1
Pressure drop		max. kPa	250
Linear velocity	backwash (20 °C)	approx. m/h	12
Bed expansion	(20 °C, per m/h)	approx. vol. %	7
Freeboard	backwash (extern / intern)	vol. %	80 - 100
Regenerant			HCl H ₂ S O ₄
Counter current regeneration	level	approx. g/l	HCl 60 H ₂ S 90 O ₄
Counter current regeneration	concentration	wt. %	6
Linear velocity	regeneration	approx. m/h	5
Linear velocity	rinsing	approx. m/h	5
Rinse water requirement	slow / fast	approx. BV	5

* The recommended operating conditions refer to the use of the product under normal operating conditions. It is based on tests in pilot plants and data obtained from industrial applications. However, additional data are needed to calculate the resin volumes required for ion exchange units. These data are to be found in our Technical Information Sheets.

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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