Lenntech bv
Rotterdamseweg 402m
2629HH Delft
info@lenntech.com
www.lenntech.com
Tel. +31-15-261.09.00
Fax. +31-15-261.62.89

PRODUCT DATA SHEET

AMBERLITE™ UP900

Semiconductor Grade Strong Base Anion Exchange Resin for Industrial Use

AMBERLITE UP900 resin is a semiconductor grade strongly basic anion exchanger. The matrix is based on macroporous crosslinked polystyrene and the functional groups are quaternary ammonium type 1. Due to the very high quality of the raw materials and the cleaning procedure carried out at the end of the manufacturing process, this resin can be used as a component of mixed beds for the production of ultra-pure water. In this application, AMBERLITE UP900 resin is combined with AMBERLITE UP252 resin.

PROPERTIES

Matrix	Styrene divinylbenzene copolymer
Functional group	Trimethyl ammonium
Ionic form as shipped	OH^-
Total exchange capacity [1]	≥ 0.70 eq/L (OH^- form)
Moisture holding capacity [1]	66 to 75 % (OH^- form)
Shipping weight	675 g/L
Particle size	
Uniformity coefficient	≤ 1.50
Harmonic mean size	0.560 - 0.700 mm
< 0.300 mm [1]	0.5 % max

[1] *Contractual value*
Test methods are available on request.

SUGGESTED OPERATING CONDITIONS

Composition in volume	60 % AMBERLITE UP900 40 % AMBERLITE UP252
Service flow rate	10 to 30 BV*/h
Linear velocity	15 to 40 m/h
Bed depth	About 1.50 m for the whole mixed bed
Regeneration	
Regenerant	NaOH : 4 - 6 %
First regeneration	200 g/L
Following regenerations	75 to 150 g/L
Flow rate	1 to 3 BV/h
Temperature	20 to 40°C
Slow rinse	2 BV at regeneration flow rate

** 1 BV (Bed Volume) = 1 m^3 solution per m^3 resin*

COMMISSIONING

At the time of commissioning it is recommended to follow the procedure described in our brochure : Startup procedure for regenerable ultra pure mixed beds.

LIMITS OF USE

AMBERLITE UP900 resin is suitable for industrial uses. For other specific applications such as pharmaceutical, food processing or potable water applications, it is recommended that all potential users seek advice from Rohm and Haas in order to determine the best resin choice and optimum operating conditions.

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