DOWEX UPCORE Mono A2-500

A Uniform Particle Size, Type 2 Strong Base Anion Exchange Resin Specifically Designed for the UPCORE System

Product	Type	Matrix	Functional group
DOWEX* UPCORE* Mono A2-500	Type 2 strong base anion	Styrene-DVB, gel	Dimethylethanol amine

Guaranteed Sales Specifications		Cl^- form
Total exchange capacity, min.	eq/l	1.2
	kgr/ft^3 as $CaCO_3$	26.2
Water content	%	46 - 55
Bead size distribution†		
Mean particle size	µm	550 ± 50
Uniformity coefficient, max.		1.1
>850 µ, max.	%	5
<300 µ, max.	%	0.5
Whole uncracked beads, min.	%	95

Typical Physical and Chemical Properties		Cl^- form
Total swelling ($Cl^- \rightarrow OH^-$)	%	15
Particle density	g/ml	1.09
Shipping weight	g/l	690
	lbs/ft^3	43

Recommended Operating Conditions

- Maximum operating temperature:
  - OH^- form: 35°C (95°F)
  - Cl^- form: 70°C (160°F)
- pH range: 0 - 14
- Bed depth, min.: 1,200 mm (4 ft)
- Pressure drop, design max.: 1.5 bar (22 psi)
- Pressure drop, max.: 2.5 bar (37 psi)
- Flow rates:
  - Service/fast rinse: 5-60 m/h (2-24 gpm/ft^2)
  - Regeneration/displacement rinse: 4-10 m/h (1.6-4 gpm /ft^2)
- Total rinse requirement: 2 - 4 Bed volumes
- Regenerant: 2-5% NaOH

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Typical properties and applications

DOWEX UPCORE Mono A2-500 strong base anion resin is a uniform particle size, gellular, type 2 anion resin designed for use in the UPCORE system. It has a special pore structure which facilitates the removal of organic matter from water and its subsequent elution from the resin.

The absence of large beads in DOWEX UPCORE Mono A2-500 resin results in extremely high operating capacity and good chemical efficiency.

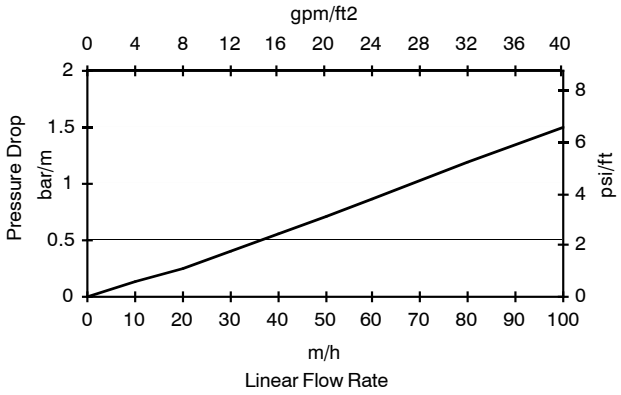
DOWEX UPCORE Mono A2-500 resin has an excellent resistance to mechanical and osmotic stress which helps minimize resin attrition.

Packaging

25 liter bags or 5 cubic feet fiber drums

Figure 1. Pressure Drop Data

Temperature = 20° C (68° F)



For other temperatures use:

$P_T = P_{20°C} / (0.026\ T_{°C} + 0.48)$, where P = bar/m

$P_T = P_{68°F} / (0.014\ T_{°F} + 0.05)$, where P = psi/ft

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