DOWEX UPCORE Mono A-625

A Uniform Particle Size, Strong Base Anion Exchange Resin Specifically Designed for Layered Anion Beds in the UPCORE System

Product	Туре	Matrix	Functional group
DOWEX* UPCORE* Mono A-625	Type 1 strong base anion	Styrene-DVB, gel	Quaternary amine
Guaranteed Sales Specifications			CI ⁻ form
Total exchange capacity, min.	eq/l kgr/ft³as CaC	O ₃	1.3 28.4
Water content	%		47 - 54
Bead size distribution [†] Mean particle size Uniformity coefficient, max. >850µ, max. <300µ, max.	μm % %		670 ± 50 1.1 5 0.5
Whole uncracked beads, min.	%		95

Typical Physical and Chemical Properties		Cl ⁻ form
Total swelling (Cl ⁻ \rightarrow OH ⁻)	%	20
Particle density	g/ml	1.09
Shipping weight	g/l Ibs/ft³	690 43

Maximum operating temperature:	
OH [−] form Cl [−] form	60°C (140°F) 100°C (212°F)
pH range	0-14
Bed depth, min.	800 mm (2.6 ft)
Pressure drop design, max.	1.5 bar (22 psi)
Pressure drop, max.	2.5 bar (37 psi)
Flow rates: Service/fast rinse Regeneration/displacement rinse	5-60 m/h (2-24 gpm/ft²) 4-10 m/h (1.6-4 gpm/ft²)
Total rinse requirement	2-4 Bed volumes
Regenerant	2-5% NaOH
Organic loading, max.	3 g KMnO₄/I resin

[†]For additional particle size information, please refer to the Particle Size Distribution Cross Reference Chart (Form No. 177-01775/CH 171-476-E).

Typical properties and applications:

DOWEX* UPCORE* Mono A-625 strong base anion resin is a uniform particle size, gellular, type I anion resin designed for use in the UPCORE counter-current regeneration packed bed system. The particle size is specially selected to maintain excellent separation in layered beds when used with DOWEX UPCORE Mono WB-500 weak base anion resin. The absence of large beads in DOWEX UPCORE Mono A-625 resins results in high operating capacity and good resistance to silica fouling.

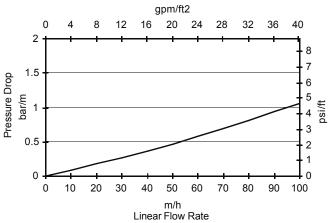
DOWEX UPCORE Mono A-625 resin has an excellent resistance to mechanical and osmotic stress which helps minimize resin attrition.

Packaging

25 liter bags or 5 cubic feet fiber drums.



Temperature = 20° C (68° F)



For other temperatures use:

 $\begin{array}{l} \mathsf{P}_{T} = \mathsf{P}_{20^{\circ}C} \ / \ (0.026 \ T_{^{\circ}C} \ + \ 0.48), \ where \ \mathsf{P} \equiv bar/m \\ \mathsf{P}_{T} = \mathsf{P}_{68^{\circ}F} \ / \ (0.014 \ T_{^{\circ}F} \ + \ 0.05), \ where \ \mathsf{P} \equiv psi/ft \end{array}$

Warning: Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

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