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## DOWEX™ UPCORE™ Mono MA-600

Uniform Particle Size, Macroporous, Strong Base Anion Exchange Resin

Product	Туре	Matrix	Functional group
DOWEX™ UPCORE™ Mono MA-60	OO Type 1 strong base	Styrene-DVB, macroporous	S Quaternary amine
Guaranteed Sales Specifications			CI- form
Total exchange capacity, min.		eq/L	1.1
		kgr/ft³ as CaCO₃	24.0
Water content		%	55 - 65
Bead size distribution			440 50
Mean particle size		μm	640 ± 50
Uniformity coefficient, max.		%	1.1 5
> 850 μm, max. < 300 μm, max.		% %	0.5
Whole beads, min.		<del></del>	95
Whole Bedds, Him.		70	,,,
Typical Physical and Chemical Pr	operties		CI- form
Total swelling (Cl <sup>-</sup> → OH <sup>-</sup> )		%	15
Particle density		g/mL	1.06
Shipping weight**		g/L	670
		lbs/ft³	42
Recommended	<ul> <li>Maximum operating temp</li> </ul>		
Operating	OH- form		60°C (140°F)
•	Cl- form		100°C (212°F)
	<ul><li>pH range</li></ul>		0-14
	<ul><li>Bed depth, min.</li></ul>		1,500 mm (4 ft)
	<ul> <li>Pressure drop, design m</li> </ul>	ax.	1.5 bar (22 psi)
	<ul><li>Pressure drop, max.</li></ul>		2.5 bar (37 psi)
	Flow rates:		
	Service/fast rinse		5-50 m/h (2-20 gpm/ft <sup>2</sup> )
	Regeneration/displacem		6-12 m/h (2.4-4.8 gpm/ft <sup>2</sup> )
	,		<b>.</b>
•	<ul> <li>Total rinse requirement</li> </ul>		2 - 4 Bed volumes

<sup>&</sup>lt;sup>†</sup> For additional particle size information, please refer to Particle Size Distribution Cross Reference Chart (Form No. 177-01775).

• Regenerant

2-4% NaOH

<sup>\*\*</sup> As per the backwashed and settled density of the resin, determined by ASTM D-2187.

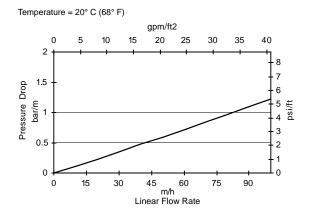
# Typical Properties and Applications

DOWEX™ UPCORE™ Mono MA-600 uniform particle size macroporous strong base anion resin is designed for use in a packed bed counter-current regeneration system. The particle size is specially selected to give a high degree of compaction prior to regeneration and to minimize pressure drop across the bed. The macroporous structure of this resin makes it the resin of choice in treating waters with high level of organic matter if operating capacity is not of high concern.

### Packaging

25 liter bags or 5 cubic feet fiber drums

Figure 1. Pressure Drop Data



#### For other temperatures use:

 $P_T = P_{20^{\circ}C} / (0.026 \text{ T}_{^{\circ}C} + 0.48)$ , where P = bar/m $P_T = P_{68^{\circ}F} / (0.014 \text{ T}_{^{\circ}F} + 0.05)$ , where P = psi/ft

#### DOWEX™ Ion Exchange Resins For more information about DOWEX resins, call the Dow Water Solutions business:

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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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