



DOWEX MB

A Cost Effective, Mixed Ion Exchange Resin for Making Spot-Free Water

Product	Type	Matrix	Functional group
DOWEX* MB	1:1 by equivalents cation:anion	Styrene-DVB, gel	Sulfonic acid Quaternary amine

Guaranteed Sales Specifications		OH ⁻ form	H ⁺ form
Total exchange capacity, min.	eq/L kgr/ft ³ as CaCO ₃	1.0 21.9	1.6 35.0
Water content	%	68 max.	40 - 60
Fines, < 300 microns, max.	%	1	1

Typical Physical and Chemical Properties		OH ⁻ form	H ⁺ form
Mean particle size [†]	μm	500 - 850	500 - 950
Particle density	g/mL	1.06	1.20
Shipping weight	g/L lbs/ft ³		720 45

Recommended Operating Conditions

- Maximum operating temperature 60°C (140°F)
- pH range 0-14

Typical Properties and Applications

DOWEX MB ion exchange resin is a 1:1 equivalent mixture of strong acid cation and strong base anion exchange resin. This product is a ready-to-use mixed resin for the economical production of spot free water. DOWEX MB will typically produce between 500 and 700 gal of spot free water/cubic foot [66 to 90 liters water per liter of resin] (depending on the salt load). DOWEX MB is also the ideal choice for single-use industrial applications, where conductivity of <1 μS/cm can be obtained. DOWEX MB has been optimized for single-use applications, and is typically discarded upon exhaustion.

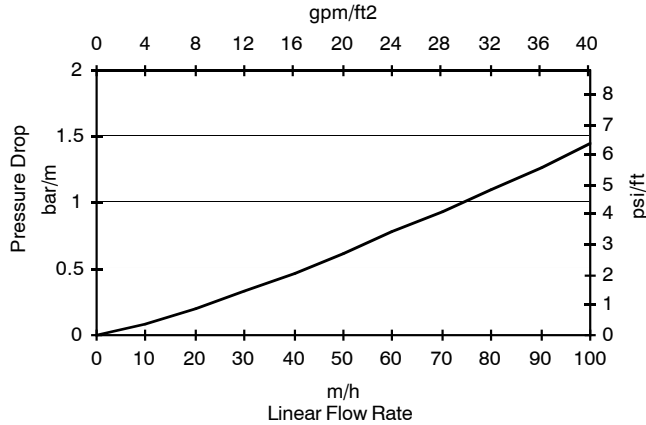
Packaging

5 cubic foot fiber drums

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

Figure 1. Pressure Drop Data

Temperature = 20° C (68° F)



For other temperatures use:

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

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

DOWEX Ion Exchange Resins
 For more information about DOWEX resins, call the Dow Liquid Separations 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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