



DOWEX™ MARATHON™ MR-3

Uniform Particle Size, High Capacity, Mixed Ion Exchange Resin for Demineralization

| Product | Type | Matrix | Functional group |
|-----------------------|------------------------------------|------------------|-----------------------------------|
| DOWEX™ MARATHON™ MR-3 | 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 | 1.0 | 1.9 |
| | kg/ft ³ as CaCO ₃ | 21.9 | 41.5 |
| Water content | % | 60 - 72 | 46 - 51 |
| Uniformity coefficient, max. | | 1.1 | 1.1 |
| Whole uncracked beads, min. | % | 90 | 90 |

| Typical Physical and Chemical Properties | | OH ⁻ form | H ⁺ form |
|--|---------------------|----------------------|---------------------|
| Mean particle size [†] | μm | 610 ± 50 | 760 ± 50 |
| Particle density | g/mL | 1.06 | 1.22 |
| Shipping weight | g/L | | 672 |
| | lbs/ft ³ | | 42 |

| | | |
|--|---------------------------------|-----------------|
| Recommended Operating Conditions | • Maximum operating temperature | 60°C (140°F) |
| | • pH range | 0 - 14 |
| | • Bed depth, min. | 800 mm (2.6 ft) |

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

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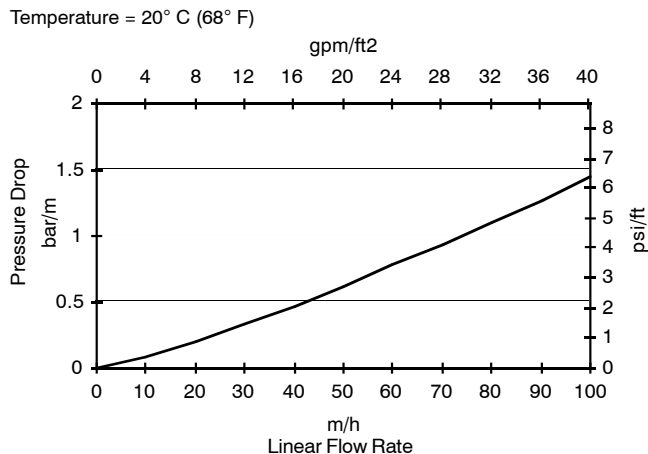
Typical properties and applications

DOWEX™ MARATHON™ MR-3 ion exchange resin is a 1:1 equivalent mixture of DOWEX MARATHON A (OH) anion and DOWEX MARATHON C-10 (H) cation resins. This product is a ready-to-use regenerable uniform particle size mixed resin for demineralization.

Packaging

25 liter bags or 5 cubic foot fiber drums

Figure 1. Pressure Drop Data



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

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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