

DOWEX[™] MARATHON[™] MR-3

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

Product	Туре	Matrix		Functional group	
DOWEX™ MARATHON™ MR-3	1:1 by equivalents cation:anion	Styrene	-DVB, gel	Sulfonic acid Quaternary amine	
Guaranteed Sales Specification	าร		OH [.] form	H⁺ form	
Total exchange capacity, min.		eq/L kgr/ft³ as CaCO₃	1.0 21.9	1.9 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 Ibs/ft ³		672 42	
Recommended Operating Conditions	Maximum operating temperaturepH range		60°C (140°F) 0 - 14		
Conditions	Bed depth, min.			800 mm (2.6 ft)	

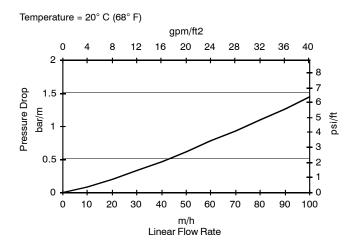
[†] For additional particle size information, please refer to Particle Size Distribution Cross Reference Chart (Form No. 177-01775)

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





For other temperatures use:

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

DOWEX Ion Exchange Resins For more information about DOWEX resins, call the Dow Liquid Separations business:				
North America:	1-800-447-4369			
Latin America:	(+55) 11-5188-9222			
Europe:	(+32) 3-450-2240			
Pacific:	+60 3 7958 3392			
Japan:	+813 5460 2100			
China:	+86 21 2301 9000			
http://www.dowex.com				

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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