DOWEX MONOSPHERE MR-575 UPW

Uniform Particle Size Mixed Bed Resin for Ultrapure Water Applications

Product	Type	Matrix	Functional group
DOWEX* MONOSPHERE* MR-575 UPW	1.2:1 by equivalent cation:anion	Styrene-DVB, gel	Sulfonic acid Quaternary amine

Guaranteed Sales Specifications		OH^- form	H^+ form
Total capacity, min.	eq/l	1.0	2.3
	kgr/ft³ as $CaCO_3$	21.8	50.3
Water content	%	55 - 65	41 - 46
Bead size distribution			
Mean particle size	µm	590 ± 50	550 ± 50
Uniformity coefficient, max.		1.1	1.1
<0.3 mm, max.	%	0.5	0.2
Whole uncracked beads, min.	%	95	95
Crush strength			
Average, min.	g/bead	350	500
> 200 g/bead, min.	%	95	95

Ionic conversion

Cation resin					H^+ 99.7% min.
Anion resin	OH^- 95% min.	Cl^- 0.1% max.	CO_3^- 5% max.	SO_4^{2-} 0.1% max.	

Trace metals, ppm dry resin, max.

	Na	Fe	Cu	Al
Cation	25	25	15	15
Anion	25	25	15	15

Typical Physical and Chemical Properties		OH^- form	H^+ form
Particle density	g/ml	1.08	1.22
Shipping weight	g/l	705	705
	lbs/ft³	44	44

Recommended Operating Conditions

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

Typical properties and applications

DOWEX MONOSPHERE MR-575 UPW uniform particle size mixed resin has outstanding purity to meet the requirements of high quality water applications such as for the electronics industry as a final polisher. It is a 1.2:1 stoichiometric mixture of DOWEX MONOSPHERE 575C UPW (H) and DOWEX MONOSPHERE 550A UPW (OH) resins. It also has excellent physical and chemical stability. Extremely low levels of residual metallic impurities, make this resin well suited for high purity water applications.

Packaging

5 cubic foot drums or 25 liter bags

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

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