

DOWEX™ MONOSPHERE™ MR-575 LC NG

Uniform Particle Size Mixed Bed Resin for Demineralization in Nuclear Water Applications

Product			Туре		Mat	trix	Functional group				
DOWEX™ MONOSPHERE™ MR-575 LC NG			1:1 by equivalent cation:anion		Styr	Styrene-DVB, gel		Sulfonic acid Quaternary amine			
Guaranteed Sales Specifications						OH- form		H+ form			
Total exchange capacity, min.			eq/L			1.1		2.3			
			kgr/ft³ as CaCO₃		3	24.0		50.3			
Water content			%			55 - 65	41 - 46		46		
Bead size	distribution	t									
Mean particle size			μm			590 ± 50		550 ± 50			
<0.3 mm, max., uniformity coefficient, max.							1.1		1.1		
<300 μm, max.				%			0.2		0.2		
Whole uncracked beads, min.				%			95		95		
Crush stre	•										
Average, min.			g/bead			350		500			
>200 g/bead, min.				%			95		95		
lonic conve											
Cation re	esin									H+	
Anion resin OH- 95% min.		LL.	Cl-		CO ₃ -		SO ₄		99.7% min.		
				0.1% max.		5% max.		0.1% max	,		
Trace meta	ale nom dr	y resin, max		0.170	IIIax.	J /0 1116	ал.	0.1 /0 1110/	۱.		
Trace met	Na Na	Fe	 Cu	Al	Mg	Са	Co	Pb	Hg	Heavy Metals (as Pb	
Cation	20	25	10	15	ivig ,	_ _	8	20	15	—	
Anion	40	50	10	50	50	50	30	10	10	10	
Typical Physical and Chemical Properties							OH- form	H+ form			
Particle density				g/mL			1.08	1.22			
Shipping weight**			g/L			705		705			
					lbs/ft ³		44		44		

pH range

• Bed depth, min.

Operating

Conditions

0-14

800 mm (2.6 ft)

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

^{**} As per the backwashed and settled density of the resin, determined by ASTM D-2187.

Typical properties and applications

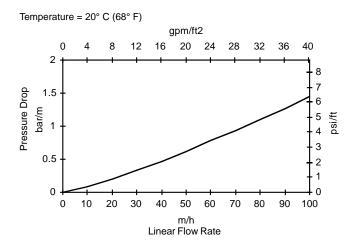
DOWEX™ MONOSPHERE™ MR-575 LC NG uniform particle size mixed resin has outstanding purity to meet the requirements of high quality water applications such as the nuclear industry. It is a 1:1 stoichiometric mixture of DOWEX MONOSPHERE 575C NG (H) and DOWEX MONOSPHERE 550A LC NG (OH) resins. It also has excellent physical and chemical stability.

Extremely low levels of residual metallic impurities make this resin well suited for high purity water applications.

Packaging

50 liter or 5 cubic foot fiber drums

Figure 1. Pressure Drop Data



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 Water Solutions 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.dowwatersolutions.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.

Notice: No freedom from any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Dow assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

