

Nitrate Removal Resin

Macroporous Strong Base Anion Resin

DOSHION DCHR 74 resin is a macroporous strong base anion exchange resin which is specially designed for the removal of nitrates from water for potable processes. The macroporous matrix and special ion exchange group functionality imparts ideal nitrate selectivity to DCHR 74 making this resin particularly suitable for nitrate removal even when moderate to high concentrations of Sulphate are present. Hence this resin gives superior performance in nitrate removal applications when compared with standard exchange resins.

Characteristics of DCHR 74 :

- Ideal for removal of Nitrates from water for Potable processes.

Properties	
Matrix	Cross linked Polystyrene Macroporous
Functional group	Special Nitrate Selective
Ionic Form	Cl – Chloride
Physical Form	Opaque Cream Spherical Beads
Particle size (mm)	0.3- 1.2
Uniformity Coefficient (max)	1.7
Moisture Content, Cl form %	50-56
Total Exchange Capacity (eq/L) (min)	0.9
Bulk Density / Shipping Weight (gm/L)	675-705
Operating Temperature °C, Cl-form (max)	100
Reversible Swelling Cl-SO ₄ ²⁻ /NO ₃ ⁻ ;	Negligible
Solubility in common solvents	Insoluble

Operating Conditions		
Minimum Bed Depth	mm	750
Operating pH		4.5 – 8.5
Regenerant Concentration	%	3-10(NaCl)
Regenerant Flow Rate	*BV/hr	2 – 6
Regenerant Contact Time	Minutes	30
Regeneration Level	Kg/ m ³ of Resin	90-250 (NaCl)
Displacement Rinse Rate	*BV/hr	2 – 5
Displacement Rinse Volume	#BV	2 – 5
Fast Rinse Rate	*BV/hr	8 – 32
Fast Rinse volume	#BV	4 – 10
Service flow rate	*BV/hr	8 – 32

* Bed Volume/ Hour ; # Bed Volume

Full Range of Ion Exchange Resins

Cation Exchange Resin	Anion Exchange Resin	Speciality Resin	DM Resin
CSA 121	GA 11	DCHR 74	DMB 13
CSA 9	GA 12	DCHR 78	
CSA 9 L	GA 13	DIRM 412	
CSA 29	ASB 108	DCR 11	
CSA 609 D	ASB 171	CWS 66 D	
CWA 63	ASB 1080 D UPS	DMB 13 S	
CWA 92 D	ASB 8020 D	CGC 1200	
CSA 309	AWB 7020 D	CMC 1900	
	AWB 7030 D	CMC 2400	
	AWB 7050 D		
	GA 711		

Full Range of Membrane Performance Chemical

RO Membrane Chemicals	UF Membrane Chemicals	EDI Membrane Chemicals	Speciality Chemicals
DCC – Bior	DCC - UFC - I	EDC - SNO - IO - 56	Doshion - 1180
DCC – Inor	DCC - UFC - O	EDC - SNO - IO - 74	Doshion - 1118
DCC - Col	DCC - UFC - C		Doshion - 3426
DCC - Stor	DCC - UFC - S		Doshion - 9711 (P)
Doshion - 51 (HS)			Doshion - 9718 (Z)
Doshion - 52 (L)			
Doshion - 53			
DoScale - 65			
Doshion - 6311 - LS			

Full Range of Pharmaceutical Polymers

Active Pharma Ingredients	Excipients	Speciality Polymers	Ready Mix & Ready to Use
Doshion P-504 (Sodium Polystyrene Sulphonate USP / EP)	Doshion P-504 (Polystyrene Resin)	Doshion P-520	Doshion P-542 AB (R)
Doshion P-548 BP (Calcium Polystyrene Sulphonate BP)	Doshion P-514	Doshion P-535	Azithromycin Taste Masked (7.5%)
Doshion P-548 JP (Calcium Polystyrene Sulphonate JP)	Doshion P-542		
Doshion P-550 (Cholestyramine Resin USP / EP)	Doshion P-542 AB		
	Doshion P-542 CP		
	Doshion P-542 D		
	Doshion P-544 C		
	Doshion P-544 R		
	Polyflash Doshion P-544 DS		
	Doshion P-544 DS (Cipro)		
	Polyflash Doshion P-544 DB		
	Polyflash Doshion P-544 D		
	Doshion P-550		
	Doshion P-551 (Polyacrilix Resin)		

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Translating Source Into Resource

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