

Chelating Resin

Macroporous Polystyrene Resin

DOSHION DCHR 79 resin is a Macroporous polystyrene structure, cross linked with DVB chelating type resin containing Amino phosphonic functional group which forms complexes with metal ions.

Characteristics of DCHR 79 :

- High capacity for Calcium, Barium and Strontium.
- Exceptional Physical stability which permits a long life without the development of excessive pressure drop.
- Excellent regeneration efficiency
- Ideal for brine purification with high Strontium content.

Properties	
Matrix	Cross linked Polystyrene
Functional group	Amino Phosphonic
Ionic Form	Na ⁺ - Sodium as shipped
Physical Form	Light Brown, Opaque Beads
Particle size (mm)	0.30 – 1.20
Mean Harmonic Dia (mm)	0.5 – 0.7
Moisture Content %	55-65 by wt.
Total Exchange Capacity (meq/ ml) (min)	1.7 Na ⁺ Form
Bulk Density / Shipping Weight (gm/L)	740 – 760
Density	1.10 to 1.14
Volume change, Na to H	45%

Operating Conditions		
Minimum Bed Depth	mm	700
Operating Temperature	°C (Max)	80
Backwash Rate	Bed Expansion	50 – 75 %
Regenerant Concentration	%	1-2 N (HCl) 1-2 N (NaOH)
Displacement Rinse Rate	*BV/hr	2 – 6
Displacement Rinse Volume	#BV	1 – 2
Fast Rinse Rate	*BV/hr	10 – 40
Fast Rinse volume	#BV	4 – 10
Service flow rate	*BV/hr	10 – 40

* Bed Volume/ Hour ; # Bed Volume

Full Range of Ion Exchange Resins

Cation Exchange Resin	Anion Exchange Resin	DM Resin
CSA 121	GA 11	DMB 13
CSA 121 - FG	GA 11 UPS	DMB 13 UPS
CSA 9	GA 12	DMB 13 S
CSA 9 UPS	GA 13	
CSA 9 - FG	GA 13 UPS	
CSA 9 L	ASB 108	
CSA 9 L Na - FG	ASB 171	
CSA 29	ASB 8010 D	
CSA 29 UPS	ASB 8010 D UPS	
CSA 609 D	ASB 8020 D	
CWA 63	AWB 7020 D	
CWA 92 D	AWB 7030 D	
CSA 309	AWB 7050 D	
	AWB 7050 D UPS	
	GA 711	

Special Application Ion Exchange Resin

DCHR 71	CGC 1200	DBR 108
DCHR 72	CMC 1900	FRC 10
DCHR 74	CMC 2400	ASB 108 H UPS
DCHR 78	DAAR 85	GA 13 H UPS
DCHR 79	DAAR 312	CWS 66 D
DIRM	DAAR 313	IPSR 550
DCR 11	DAAR 412	DMB 11
DHMR 2	DMB 10	DMB 13 S

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Translating Source Into Resource

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