

## Chelating Resin

### Macroporous Polystyrene Resin

**DOSHION DCHR 72** resin is an acidic unfunctional cross linked polystyrene structure. It is a premium grade macroporous high capacity chelating resin supplied in Sodium Form. The resin is used in ultra purification of brine required in Chloro-Alkali Industries.

#### Characteristics of DCHR 72 :

- High selectivity for multi-valence metal ions
- Ideal for ultra purification of brine
- Ideal for treatment of waste water containing heavy metal ions.

Properties	
Matrix	Cross linked Polystyrene Macroporous
Functional group	Iminodiacetic Acid
Ionic Form	Na <sup>+</sup> - Sodium
Physical Form	Milky White beads
Particle size (mm)	0.30 – 1.25
Effective size (mm)	0.40 – 0.60
Uniformity Coefficient (max)	1.6
Moisture Content %	52-58
Total Exchange Capacity (meq/gm) (min)	1.95 (Chelated Copper)
Volume Exchange Capacity (meq/gm) (min)	0.60 (Chelated Copper)
Bulk Density / Shipping Weight (gm/L)	720 – 780
Operating pH Range	Na <sup>+</sup> Form: 6 – 11 H <sup>+</sup> Form: 2 – 6

Operating Conditions		
Minimum Bed Depth	mm	750
Operating Temperature	°C (Max)	100
Regenerant Concentration	%	4-5 (HCl)
Regenerant Flow Rate	*BV/hr	3 – 4
Regenerant Contact Time	Minutes	30 min
Regeneration Level	Kg/ m <sup>3</sup> of Resin	30-150 (HCl)
Displacement Rinse Rate	*BV/hr	3 – 4
Displacement Rinse Volume	#BV	1 – 2
Fast Rinse Rate	*BV/hr	15 – 45
Fast Rinse volume	#BV	4 – 10
Service flow rate	mtr/ hr	15 – 45

\* 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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