

Demineralization Resin

Strong Acid Cation (Macroporous)

DOSHION CSA 609 D is a Macroporous Strongly Acidic Cation Exchange Resin. It is based on polystyrene matrix with sulfonic acid functional groups. Due to its highly cross linked matrix and macroporous structure, this resin has exceptional physical strength and chemical stability.

The highly cross linked structure provides greater resistance to oxidants and insures longer resin life under aggressive operating conditions. The high degree of cross linking also contributes physical strength and rigidity to the **DOSHION CSA 609 D** resin beads, thus preventing fracture or breakage due to osmotic shock. The sizing of this resin is such that the pressure drop in service will be low and the separation will be good in mixed bed operation.

Properties

Matrix	Cross linked Polystyrene Macroporous
Functional group	HSO ₃ ⁻
Ionic Form	H ⁺ – Hydrogen
Physical Form	Moist Opaque Beads
Particle Size (mm)	0.30 – 1.2
Moisture Content %	50-56
Total Exchange Capacity (eq/L) (min)	1.6
Bulk Density or Shipping Weight gms/ltr	800-830
Specific Gravity gms/ml (About)	5-14
Solubility in common solvents	Insoluble
Effect of Acid & Alkali	Unaffected
Operating Temperature °c (max)	120

Operating Conditions

Minimum bed depth	mm	750
Backwash rate	m/hr	Pls ask rep.
Regenerant Concentration	%	1.30 (H ₂ SO ₄) 1-3 (HCl)
Regenerant flow rate	*BV/hr	2 – 8
Regenerant contact time	Minutes	30 min
Regeneration Level 100%	Kgs/ m ³ of Resin	60-150 (H ₂ SO ₄) 40-150 (HCl)
Displacement Rinse rate	*BV/hr	2 – 8
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	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 - C 8100
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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