

Softening Resin

Strong Acid Cation (Gel)

DOSHION CSA 9 S is a GEL Type Strong Acid Cation Exchange Resin product by the sulfonation of styrene-divinylbenzene copolymers. The resin is designed to combine high operational capacity and superior physical stability. This quality is assured by specifications that call for a whole un-cracked bead content of at least 95% and an unmatched bead strength. **DOSHION CSA 9 S** is the resin of choice whenever high performance is required. The resin is available in both Na⁺ form.

DOSHION CSA 9 S is ideal for all type of Softener resin applications with high OBR and exchange capacity.

Properties	
Matrix	Cross linked Polystyrene
Functional group	SO ₃ (Sulphonic)
Ionic Form	Na ⁺ – Sodium
Physical Form	Hard Moist Beads
Particle size (mm)	0.30- 1.20
Moisture Content %	43-50 Na ⁺ form
Total Exchange Capacity (eq/L)	2.0 Na ⁺ form
Bulk Density / Shipping Weight (gm/L)	750-820 Na ⁺ form
Operating pH Range	0-14
Solubility in common solvents	Insoluble

Operating Conditions		
Minimum Bed Depth	mm	750
Regenerant Concentration	%	10-16(NaCl)
Regenerant Flow Rate	*BV/hr	2 – 8
Regenerant Contact Time	Minutes	30
Regeneration Level	Kg/ m ³ of Resin	60-160 (NaCl)
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	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 74	CGC 1200	DBR 108
DCHR 78	CMC 1900	FRC 10
DIRM	CMC 2400	ASB 108 H UPS
DCR 11	DAAR 85	GA 13 H UPS
DMB 10	DAAR 312	CWS 66 D
DMB 11	DAAR 313	IPSR 550
DMB 13 S	DAAR 412	

doshion®
Translating Source Into Resource

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