

Demineralization Resin

Strong Base Anion (Gel)

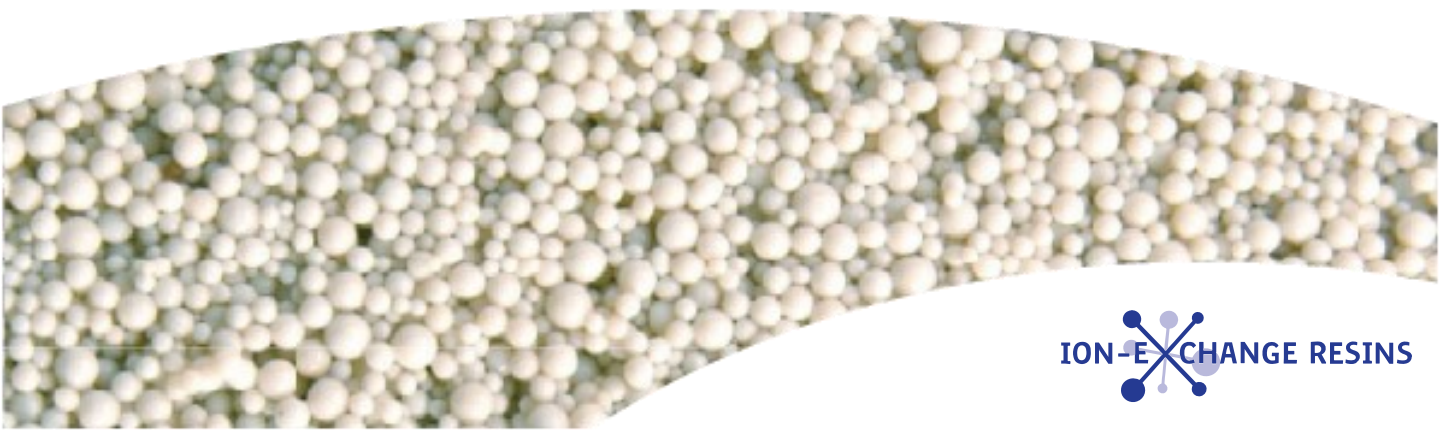
DOSHION GA 12 is a GEL Type -II Strong Base Anion Exchange Resin with high capacity. It is based on cross-linked polystyrene matrix. **DOSHION GA 12** is specially designed to give high throughput and economical operation. The basicity of this Type – II resin is lower than that of the Type – I resin and the hydrophilicity of the Type- II resin is higher than that of the Type – I resin.

DOSHION GA 12 is recommended for demineralisation, oxygen removal and nitrate removal. The resins are highly resistant to osmotic shocks and attrition losses and are adaptable for both counter-current and co-current operations.

Properties	
Matrix	Cross linked Polystyrene
Functional group	Quaternary Ammonium Type – II
Ionic Form	Cl ⁻ – Chloride
Physical Form	Hard Moist Beads
Particle Size (mm)	0.30 – 1.20
Moisture Content %	46-52
Total Exchange Capacity (min) (eq/L)	1.2
Bulk Density or Shipping Weight (gms/L)	700-720
Operating pH Range	0-14
Solubility in common solvents	Insoluble
Volume change % (max): Cl ⁻ – OH ⁻	17

Operating Conditions		
Operating Temperature (max)	°C	40(OH ⁻) 70 (Cl ⁻)
Minimum bed depth	mm	750
Regenerant Concentration	%	4-5 (NaOH)
Regenerant flow rate	*BV/hr	2-6
Regenerant contact time	Minutes	30
Regeneration Level	Kg/ m ³ of Resin	30-90 (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	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

Doshion Poly Science Pvt. Ltd.

Building Number: 9 – 10, Sigma Corporates,
Off. Sindhu Bhavan Road, Ahmedabad – 380054, Gujarat, India

+91 079 – 4800 7766 | polymers@doshion.com | www.doshionpoly.com

