

# Demineralization Resin

## Strong Base Anion Type – I (Gel)

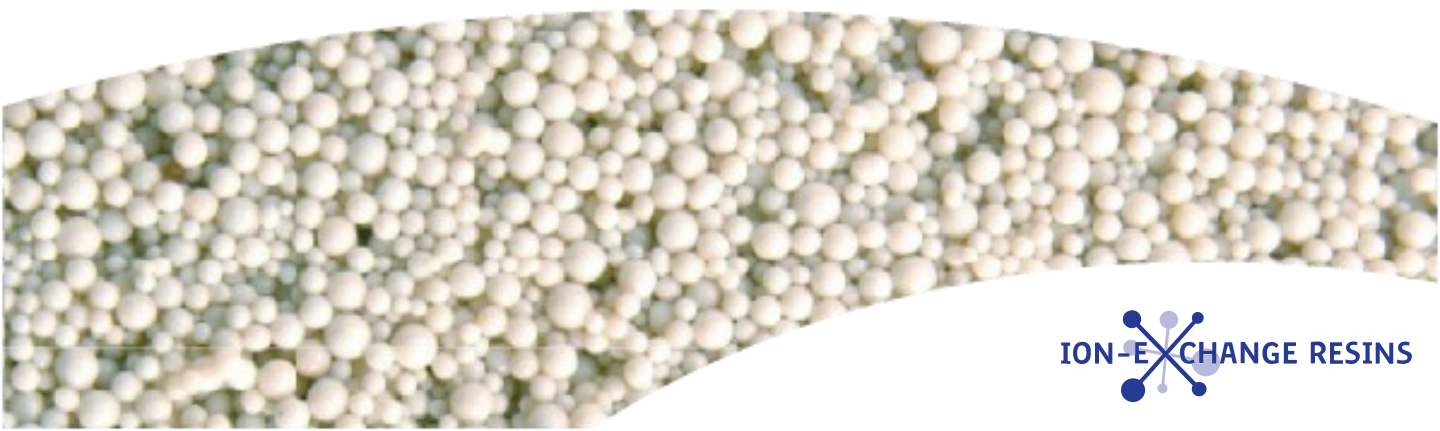
**DOSHION GA 11** resin is a GEL Type-1 Strong Base Anion Exchange resin with high capacity. It is based on polystyrene matrix with quaternary ammonium functional groups. **DOSHION GA 11** is specially designed to give high throughput and economical operation in both water and non water applications. **DOSHION GA 11** resin in combination with DOSHION CSA 9 resin, gives outstanding separation and performance in mixed beds.

The resin is supplied in hard moist bead forms and is suitable for both Co-current and Counter current operation. **DOSHION GA 11** is best suited for achieving lowest possible silica leakages in treated water.

Properties	
Matrix	Cross linked Polystyrene Gel
Functional group	Quaternary Ammonium Type – I
Ionic Form	Cl <sup>-</sup> – Chloride
Physical Form	Hard Moist Beads
Particle Size (mm)	0.30 – 1.20
Moisture Content %	48-54
Total Exchange Capacity (eq/L) (min.)	1.2 (minimum)
Bulk Density or Shipping Weight( gm/L)	690-710
Operating pH Range	0-14
Solubility in common solvents	Insoluble
Volume change % (max) : Cl <sup>-</sup> – OH <sup>-</sup>	17

Operating Conditions		
Operating Temperature (max)	°C	60 ( OH <sup>-</sup> ) 100 (Cl <sup>-</sup> )
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 <sup>3</sup> of Resin	30-120 (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)		

**doshion**<sup>®</sup>  
Translating Source Into Resource

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