

## Demineralization Resin

### Non Regenerable Anion Resin (Nuclear Grade)

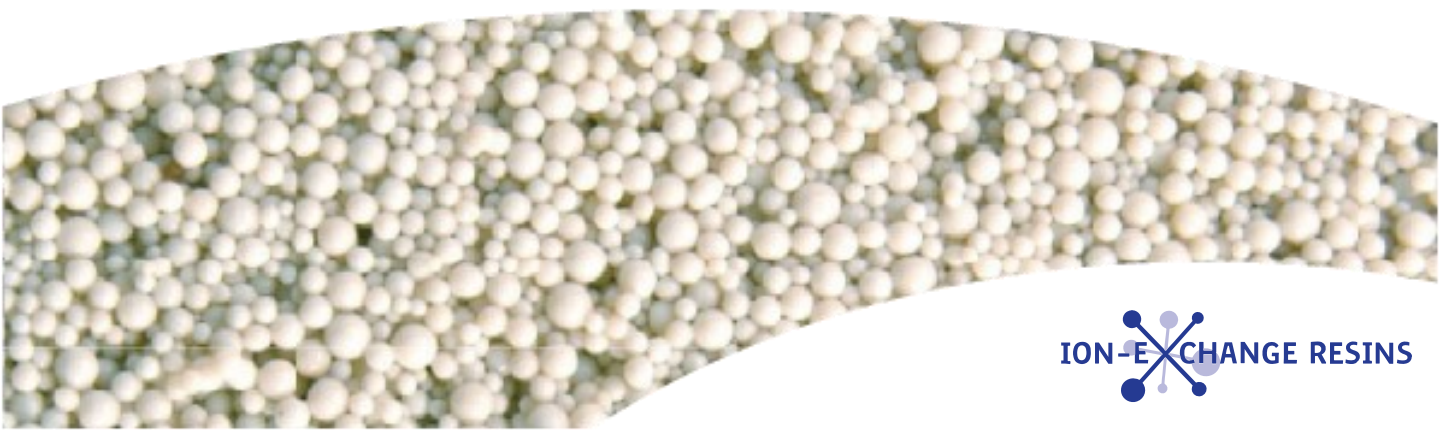
**DOSHION GA 711** resin is a GEL Type-1 Strong Base Anion Exchange resin with high capacity. It is based on polystyrene matrix with quaternary ammonium functional groups. **DOSHION GA 711** is specially designed to give high throughput and economical operation in both water and non water applications. **DOSHION GA 711** resin in combination with DOSHION CSA 309 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 711** 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	OH <sup>-</sup> - Hydroxide
Physical Form	Hard Moist Beads
Particle Size (mm)	0.30 – 1.20
Moisture Content %	50 – 60
Total Exchange Capacity (eq/L) (min.)	1.0
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>	18-20
Conversion	90% min OH <sup>-</sup> 3% max Cl <sup>-</sup>

Operating Conditions		
Operating Temperature (max)	°C	60 ( OH <sup>-</sup> ) 100 ( Cl <sup>-</sup> )
Minimum bed depth	mm	750
Backwash Rate	m/ hr	Pls ask rep.
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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