

## Demineralization Resin

### Strong Base Anion Exchange Resin Type - I (Uniform Particle Size)

**DOSHION GA 11 UPS** is a uniform particle size, high quality strong base type - I Anion Exchange Resin designed for use in all general demineralisation systems. The uniformity and mean particle size of GA 11 UPS have been optimized for use in industrial equipment including mixed beds, when paired with DOSHION CSA 9 UPS.

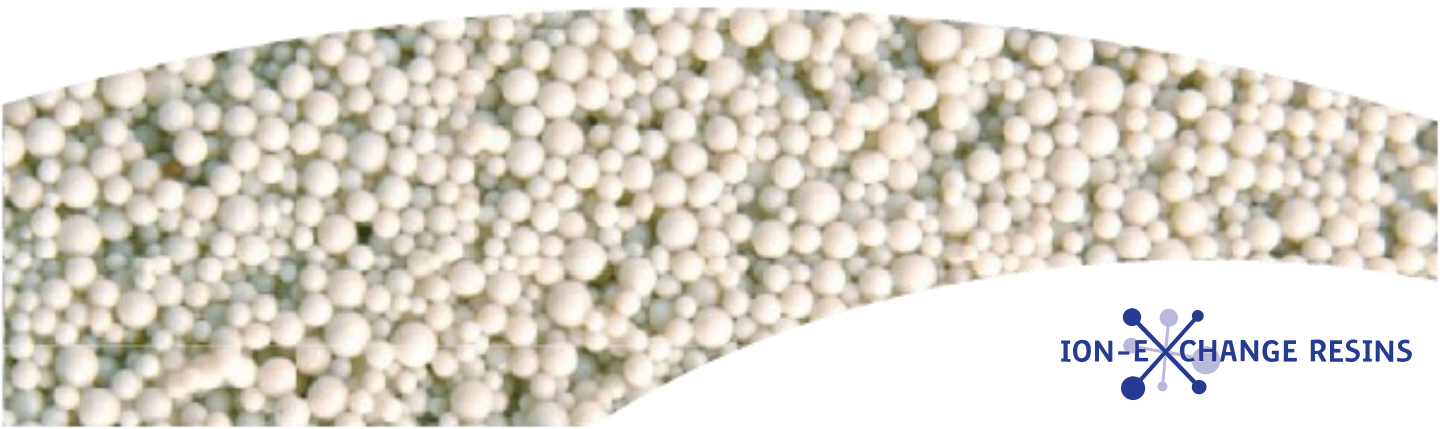
#### The Characteristics of GA 11 UPS:

- Exceptional Physical stability for a conventional gel type resin which permits a long life without the development of excessive pressure drop.
- Excellent regeneration efficiency
- Ideal for demineralisation, condensate polishing and chemical process applications.

Properties	
Matrix	Cross Linked Polystyrene Gel
Functional group	Quaternary Ammonium Type - I
Ionic Form	OH <sup>-</sup> / Cl <sup>-</sup>
Physical Form	Hard Moist Beads
Particle Size (mm)	0.40 -0.85
Effective Size (mm) (min)	0.55 – 0.65
Uniformity Coefficient (max)	1.2
Moisture Content % (OH <sup>-</sup> / Cl <sup>-</sup> )	56 – 65 / 50 – 56
Volume Exchange Capacity (eq/L) (min)	OH <sup>-</sup> : 1.0 Cl <sup>-</sup> : 1.2
Bulk Density (gm/L)	670-730
Specific Gravity Moist Cl <sup>-</sup> form	1.06 – 1.10
Osmotic Stability %	>= 96
Volume Change Cl <sup>-</sup> to OH <sup>-</sup> % (max)	30

Operating Conditions		
Minimum bed depth	mm	750
Operating pH range		0-14
Operating temperature	°C	60
Backwash Rate %	Bed Expansion	50 – 75
Regenerant Concentration	%	2-5 (NaOH)
Regenerant Level	Kg/ m <sup>3</sup> of Resin	30-120 (NaOH)
Regenerant flow rate	*BV/hr	2-6
Regenerant contact time	Minutes	40 min
Displacement Rinse rate	*BV/hr	2 – 6
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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