

Uranium Extraction Resin

Strong Base Anion (Gel)

DOSHION ASB 13U has a strong basic uni-functional cross linked Polystyrene structure containing Type - I quaternary ammonium group. It is a premium grade gel type high capacity resin specially developed for extraction of uranium from acidic leach liquors. Doshion ASB 13 U can be easily converted in to Sulphate or Carbonate form as per the requirement of extraction process.

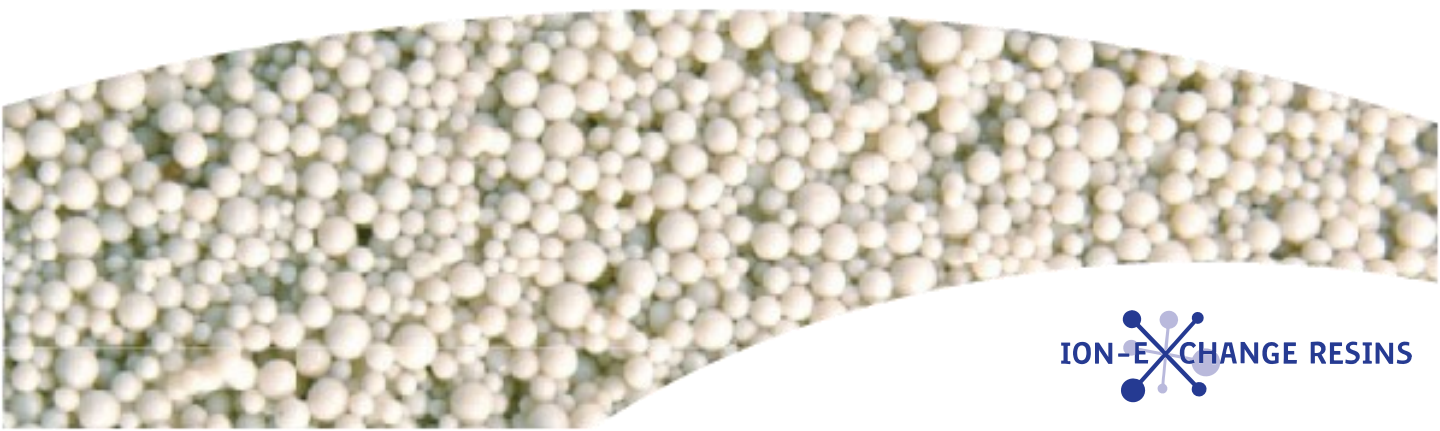
The Characteristics of ASB 13U:

- High capacity and shock resistance
- Exceptional Physical stability which permits a long life without the development of excessive pressure drop.
- Excellent regeneration efficiency.

Properties	
Matrix Polystyrene Gel	Cross linked
Functional group	Quaternary Ammonium Expansion Type – I
Ionic Form	Cl ⁻ – Chloride
Physical Form	Hard moist beads
Particle Size (mm)	0.40 to 0.85 mm
Moisture Content %	44 – 50
Total Exchange Capacity (eq/L) (min.)	1.3
Bulk Density (gm/L)	670 – 720
Specific gravity moist Cl form	1.09
Operating pH range	0-14
Operating Temperature °c (max)	80
Volume change Cl ⁻ to OH ⁻ % (max)	20

Operating Conditions		
Minimum bed depth	mm	750
Backwash rate	Bed Expansion	50-75 %
Regenerant concentration	%	4-5 NaCl / 4- 5NaOH/ 0.5 M H ₂ SO ₄ / 1 M NaHCO ₃
Regenerant flow rate	*BV/hr	2-6
Regenerant contact time	Minutes	40 min
Regenerant level 100%	Kg/ m ³ 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	DM Resin
CSA 121	GA 11	DMB 13
CSA 121 - FG	GA 11 UPS	DMB 13 UPS
CSA 9 S	GA 12	DMB 13 S
CSA 9 D	GA 13	
CSA 9 UPS	GA 13 UPS	
CSA 9 S – FG	ASB 108	
CSA 9 L	ASB 171	
CSA 9 L Na - FG	ASB 8010 D	
CSA 29	ASB 8010 D UPS	
CSA 29 UPS	ASB 8020 D	
CSA 609 D	AWB 7020 D	
CWA 63	AWB 7030 D	
CWA 92 D	AWB 7050 D	
CSA 309	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

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

