

Demineralization Resin

Strong Base Anion (Gel)

DOSHION GA 13 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 supplied in Chloride form. The resin is used in industrial and domestic water demineralisation applications.

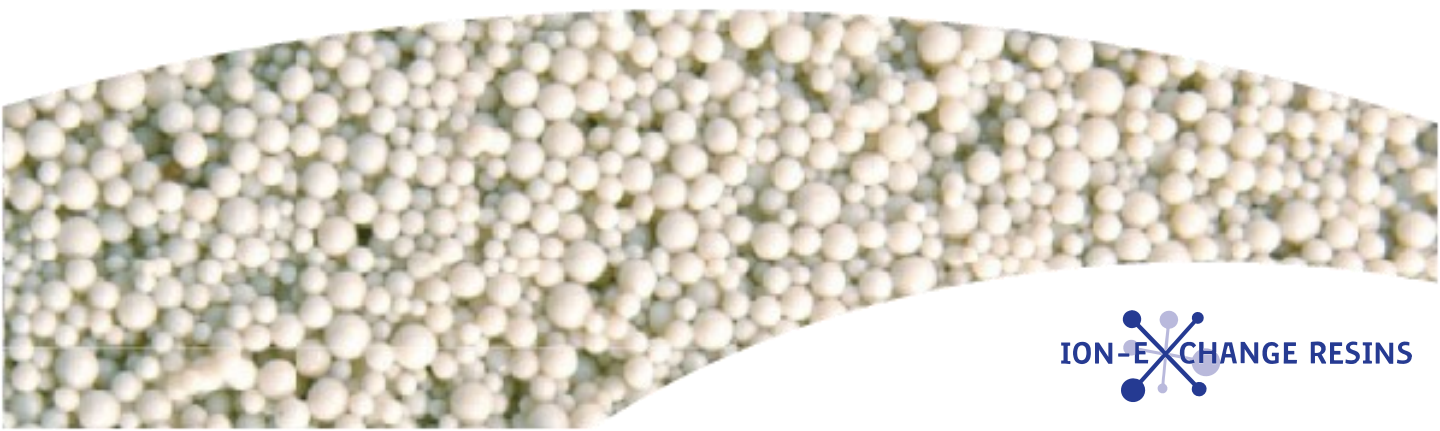
The Characteristics of GA 13:

- High capacity and shock resistance
- 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 Polystyrene Gel | Cross linked |
| Functional group | Quaternary Ammonium Expansion Type - I |
| Ionic Form | Cl ⁻ - Chloride |
| Physical Form | Hard moist beads |
| Particle Size (mm) | 0.30 - 1.20 |
| Moisture Content % | 45-50 |
| Total Exchange Capacity (eq/L) (min.) | 1.3 |
| Bulk Density (gm/L) | 690 - 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 | 600 |
| Backwash rate | Bed Expansion | 50-75 % |
| Regenerant concentration | % | 4-5 NaOH |
| 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 | 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

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