

Softening and Demineralization Resin

Weak Acid Cation(Gel)

DOSHION CWA 63 is a GEL Type Weak Acid Cation Exchange Resin with high exchange capacity. The resin is based on a polyacrylic, divinyl benzene matrix with carboxylic acid functional groups.

In water treatment applications, **DOSHION CWA 63** is very effective in removing Ca⁺⁺ and Mg⁺⁺ at nearly 100% chemicals efficiency. Due to weak acid functionality, the resin removes temporary hardness (Calcium and Magnesium Associated with the water alkalinity) but not the permanent hardness (hardness associated with FMA)

The resin is supplied in hard moist bead form and is an excellent performer in dealkalisation units.

| Properties | |
|--|---------------------------|
| Matrix | Cross Linked Polystyrene |
| Functional group | R-COOH, Carboxylic |
| Ionic Form | H ⁺ – Hydrogen |
| Physical Form | Moist Opaque Beads |
| Particle Size (mm) | 0.30 – 1.2 |
| Moisture Content % | 44-53 |
| Total Exchange Capacity (eq/L) (min) | 4.0 |
| Specific Gravity (gms/ml) (About) | 1.13 |
| Bulk Density or Shipping Weight (gms/ ltr) | 740 – 760 |
| Operating pH | 5-14 |
| Solubility in common solvents | Insoluble |
| Effect of Acid & Alkali | Unaffected |
| Operating Temperature °c (max) | 120 |
| Volume change % (max) : H ⁺ – Na ⁺ | 100 |

| Operating Conditions | | |
|---------------------------|--|--|
| Minimum bed depth | mm | 750 |
| Backwash Rate | m/hr | Pls ask rep. |
| Regenerant Concentration | % | 0.5-0.8 (H ₂ SO ₄) 1 – 5 (HCl) |
| Regenerant flow rate | *BV/hr | 4-8 |
| Regenerant contact time | Minutes | 30 -60 |
| Regeneration Level 100% | m ³ / m ³ of Resin | 115% of the operating capacity used |
| Displacement Rinse rate | *BV/hr | 4-8 |
| Displacement Rinse volume | #BV | 1.5-2.0 |
| Fast Rinse rate | *BV/hr | 10-20 |
| Fast Rinse volume | #BV | 4-10 |
| Service flow rate | *BV/hr | 5-40 |

* 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[®]
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

