

IONLITE A-700M

STRONG BASE ANION EXCHANGE RESIN CHLORIDE, Cl⁻ FORM

IONLITE A-700M is a gel type strong based anion exchange resin with functional group of quaternary ammonium structure based on polystyrene. Its characteristics are excellent physical, chemical and thermal stability, extremely high exchange capacity and high ion exchange kinetics.

IONLITE A-700M is especially utilized in twin bed or mixed bed process for, municipal and industrial pure water treatment.

IONLITE A-700M is usually use together with IONLITE C-250M for regen mixed bed to produce pure water.

| PHYSICAL PROPERTIES | | |
|--|--------|---|
| Polymer Structure | | crosslinked polystyrene |
| Functional Group | | Quaternary ammonium, R-N ⁺ (CH ₃) ₃ -X ⁻ |
| Ionic form as shipped | | Cl ⁻ |
| Structure | | gel type |
| Apperance | | light yellow |
| Total Exchange Capacity | meq/ml | 1.4 min (Cl ⁻) |
| Water Retention | % | 42 – 48 |
| Solubility | | Insoluble in all common solvents |
| Bulk Density | g/ml | 0.67 – 0.73 |
| Effective Size | mm | 0.40 – 0.90mm |
| Uniformity Coefficient | ≤ | 1.6 max |
| Total Reversible Swelling (Cl - OH) | % | 20 % max |
| Standard Packing | | 25 L/bag |

| SUGGESTED OPERATING CONDITIONS | | |
|-------------------------------------|--------|------------------------------|
| Minimum Bed Depth | mm | 1,000 – 3,000mm |
| Operating pH Range | | 1 – 14 |
| Max. Operating Temperature | °C | ≤ 60 |
| Standard Operating Flow Rate | m/hr | 15 - 30 |
| Regenerant | | NaOH |
| Concentration | % | 2 – 4 |
| Regen Flow Rate | m/hr | 4 – 5 |
| Contact Time | minute | Min 30 |
| Slow Rinse | | 2BV @ regen flow rate |
| Fast Rinse | | 2 – 4 BV @ service flow rate |

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