

ION EXCHANGE RESIN

HYDROLYTE™
Industrial Grade

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Strong Acidic Cation Exchange Resin

SC1563 Na



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PRODUCT DESCRIPTION

Hydrolyte SC1563 Na has been developed for water softening and water demineralisation. It is a high performing, gel type, strong acid cation exchange resin based on sulphonated crosslinked polystyrene. It has an excellent physical, chemical and thermal stability, very good kinetics and a high operating capacity.

PACK SIZE

- 25 Litre per bag.

FEATURES AND BENEFITS

Complies with FDA regulations for potable water applications.

- Conforms to paragraph 21 CFR 173.25 of the Food additives regulations of the FDA.

APPLICATIONS

- Standard water softener.
- Drinking water and potable water.
- Citric acid de-iron system.
- De-alkalization process..
- Partial demineralization of glucose and fructose syrup.

HYDROLYTE Strong Acidic Cation Exchange Resin SC1563 Na

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Spherical Amber Bead
Matrix Structure	Styrene-divinylbenzene copolymer
Body Type	Gellular
Functional Group	Sulphonate Group
Ionic Form As Supplied	Na+
Moisture Content	44-48%
Total Exchanged Capacity	≥ 1.90 eq/L
Bulk Density	0.77-0.87 gm/ml
Specific Gravity	1.25 - 1.29 gm/ml
Particle Distribution (0.315-0.25 mm)	≥ 95%
Effective Size	0.45 mm
Uniformity Coefficient	≤ 1.60
Reversible Swelling (Na > H)	≤ 10 %
Whole Spherical Bead Content	< 90%

RECOMMENDED OPERATING CONDITIONS

Operating pH Range	1 - 14
Operating Temperature, Na form	Max 120 C
Operating Service Flow Rate	5 to 30 BV/Hr
Minimum Bed Depth	1,000 mm
Regenerant Chemical, Na form	NaCl
Regeneration Level	100 - 250 gm/L
Regenerant Concentration	8 to 10%
Regenerant Flow Rate	2 to 8 BV/Hr
Regenerant Temperature	Max 80 C
Slow Rinsing Flow Rate	2 to 8 BV/Hr
Slow Rinsing Volume	2 to 4 BV
Slow Rinsing Contacted Time	30 Minutes
Fast Rinsing Flow Rate	At Service Flow Rate (BV/Hr)
Fast Rinsing Volume	1 to 4 BV
Fast Rinsing Contacted Time	5 to 15 Minutes