

TULSION® A-23

'Tough Gel' Strong Base Anion Exchange Resin Type I

TULSION® A-23 is a strong base anion exchange resin based on polystyrene matrix, containing quaternary ammonium Type I group. TULSION® A-23 has excellent chemical and operating characteristics along with excellent physical properties due to its crack-free nature. TULSION® A-23 has a good operating capacity for weak acids like silicic and carbonic along with strong mineral acids, when used in water treatment along with strong acid cation exchange resin Tulsion® T-42. It is ideally suited for use in a wide range of pH and temperatures.

TULSION® A-23 is supplied as moist spherical bead in the chloride form with a particle size distribution to provide good kinetics and minimum pressure drop. The bed surface of A-23 is crackfree & hence it exhibits very high bead strength.

TYPICAL CHARACTERISTICS – Tulsion® A-23

Strong Base Anion Exchange Resin

Cross-linked polystyrene Matrix structure Quaternary Ammonium Type I Functional group

Moist spherical beads Physical form

Chloride Ionic form

16 to 50 Screen size USS (wet) 0.3 to 1.2 mm Particle size (minm. 95%)

1.3 meg/ ml Total exchange capacity (minm.)

Cl to OH 20% Swelling (approx.). $53 \pm 3\%$ Moisture content

42 to 44 lbs/ ft3 (670 to 710 g/l) Backwash settled density

175/80 Cl Thermal stability °F/°C 0 to 14

pH range Insoluble in all common solvents Solubility

TYPICAL OPERATING CONDITIONS - Tulsion® A-23

Maximum operating temperature

Resin bed depth (minm.) Maximum service flow

Backwash expansion space

Backwash expansion flow rate at 25° C (77° F)

Regenerant

Regenerant level

Regenerant concentration

Regeneration time

Rinse flow rate : Slow

Fast

Rinse volume

60° C (140° F)

24" (600 mm)

60 m³/hr/m³

50 to 70 %

5 to 10 m³/hr/m²

NaOH

40 to 160g NaOH/I

4 to 5 % NaOH

30 to 60 mins.

At regenerant flow rate

At service flow rate

4 to 10 m3/m3



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HYDRAULIC CHARACTERISTICS

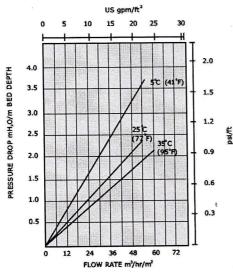


FIG. 1 PRESSURE LOSS

FIG. 2 BACKWASH AND BED EXPANSION

TESTING

The sampling and testing of ion exchange resins is done as per standard testing procedures, namely ASTMD-2187 and IS-7330, 1998.

PACKING

Super sacks	1000 liters
MS drums	180 liters
HDPE lined bags	25 liters

Super sacks	35 cft
Fiber drums	7 cft
HDPE lined bags	1 cft

For Handling, Safety and Storage requirements please refer to the individual Material Safety Data Sheets available at our offices. The data included herein are based on test information obtained by Thermax Limited. These data are believed to be reliable, but do not imply any warranty or performance guarantee. Tolerances for characteristics are as per BIS/ASTM. We recommend that the user should determine the performance of the product by testing on own processing equipment.

For further information, please contact:



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In view of our constant endeavour to improve the quality of our products, we reserve the right to change their specifications without prior notice.