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TULSION® A-32

'Tough Gel' Strong Base Anion Exchange Resin Type II

TULSION® A-32 is a 'Tough Gel' strong base anion exchange resin based on polystyrene matrix containing quaternary ammonium Type II groups. TULSION® A-32 has excellent physical characteristics due to its crack-free nature. TULSION® A-32 has slightly lower basicity than Type I resin and as such shows greater regeneration efficiency and operating capacity at equivalent regeneration levels compared to Type I resins. TULSION® A-32 is recommended where removal of strong as well as weak acids is necessary at high regeneration efficiencies. However, due to slightly lower basicity, silica leakage is marginally higher compared of Type I anion resin when used in two bed systems along with strong acid cation exchanger TULSION® T-42 in hydrogen form. It is suited for use in a wide range of pH and temperature conditions. The bead surface of TULSION® A-32 is cracks free and hence it exhibits very high bead trength. TULSION® A-32 is supplied in chloride form.

TYPICAL CHARACTERISTICS – TULSION® A-32

Strong Base Anion Exchange Resin Type

Matrix structure Polystyrene Copolymer

Functional group Quaternary Ammonium Type II

Physical form Moist spherical beads

Ionic form Chloride Screen size USS (wet) 16 to 50 Particle size (95% minm.) 0.3 to 1.2 mm Total exchange capacity (minm.) 1.3 meg/ ml Swelling (approx.) Cl to OH 12% Moisture content 47 + 3%Maximum temperature stability 60° C (140° F)

43 to 45 lbs/ft3 (690 to 720 g/l) Backwash settled density

pH range

Solubility Insoluble in all common solvent

TYPICAL OPERATING CONDITIONS – TULSION® A-32

Maximum operating temperature 60° C (140° F) Resin bed depth (minm.) 24" (600 mm) 60 m³/hr/m³ Maximum service flow Backwash expansion space 50 to 70 %

Backwash expansion flow rate at 25° C (77° F) 5 to 10 m³/hr/m²Regenerant

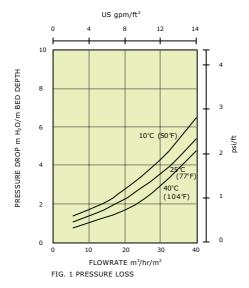
Regenerant level 40 to 160g NaOH/I Regenerant concentration 4 to 5 % NaOH Regeneration time 30 to 60 mins.

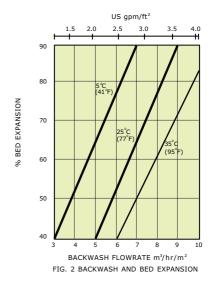
Rinse flow rate : Slow At regenerant flow rate Fast At service flow rate

4 to 10 m³/m³ Rinse volume



HYRAULIC CHARACTERISTICS





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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CHEMICAL DIVISION

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