

TULSION[®] A-21

STRONG BASE TYPE I ANION EXCHANGE RESIN

Tulsion[®] A-21 is a premium quality, gel strong base anion exchange resin containing quaternary ammonium Type-I, having high bead strength combined with excellent physical and chemical stability, used in condensate polishing applications, in mixed beds units and also in various other process applications.

Tulsion[®] A-21 is supplied as moist robust beads in chloride form and has a controlled particle size cut for minimizing pressure loss in high flow column operations. It is also used as the anion fraction in mixed bed.

Tulsion[®] A-21 offers combined properties of high capacity and excellent resistance to attrition and osmotic shock.

TYPICAL CHARACTERISTICS

Type	Gel type strong base anion exchange resin
Matrix structure	Polystyrene copolymer
Functional group	Quaternary amine
Physical form	Moist spherical beads
Ionic form	Chloride / Carbonate
Screen size USS (wet)	20-40
Particle size	0.40 to 0.85 mm
Total exchange capacity	1.3 meq/ml min
Moisture content	50 to 56 %
Temperature stability	175 °F (80 °C)
Backwash settled density	42 to 44 lbs/ft (670 to 710 g/l)
pH range	0 to 14
Solubility	Insoluble in all common solvents

OPERATING CHARACTERISTICS	
Maximum Operating temperature	175 °F (80 °C)
Resin bed depth	1000 mm
Maximum service flow	2 to 4 m ³ /hr /m ³
Backwash expansion space	50 – 70 %
Backwash expansion flow rate at 77 °F (25 °C)	5 – 10 m ³ /hr/m ²
Regenerant	NaOH, Na ₂ SO ₃ , NaCl
Regeneration level	40 to 160 g NaOH / lit, 50 to 150 g/l, 80 to 180 g/l NaCl
Regeneration concentration	4 to 5 % NaOH, 12% Na ₂ SO ₃ , 8 to 10% NaCl
Regeneration time	30 to 60 minutes
Rinse flow rate : Slow	At regeneration flow rate
: Fast	At service flow rate
Rinse volume	4 to 10 BV

TESTING :

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

PACKING :

Super Sack	1000 lit.	Super Sack	35 cft
MS drums	180 lit.	Fiber Drums	7 cft
HDPE lined Bags	25 lit.	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 per BIS/ASTM. We recommend that the user should determine the performance of the product by testing on his own processing equipment.



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