



TULSION[®] A-23 SM

STRONG BASE ANION EXCHANGE RESIN TYPE-I

TULSION[®] A- 23 SM is a specially developed premium grade strongly base anion exchange resin with polystyrene matrix containing quaternary ammonium Type-1 groups with excellent physical and chemical stability for use in condensate polishing and mixed bed applications.

TULSION[®] A- 23 SM 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 used with **TULSION[®] T-42 SM** for better results in mixed bed applications.

TYPICAL CHARACTERISTICS

Type	strong base anion exchange resin
Matrix structure	Polystyrene copolymer
Functional group	Quaternary ammonium group
Physical form	Moist spherical beads
Ionic form	Chloride
Screen size USS (wet)	16-40 US Mesh
Particle size	0.4 to 1.2 mm
Uniformity coefficient	1.45 max
Total exchange capacity	1.3 meq/ml min
Moisture content	53 ± 3%
Reversible Swelling (Cl to OH)	20%
Backwash settled density	670 to 710 g/l
Temperature stability	60 ° C
pH range	0 to 14
Solubility	Insoluble in all common solvents

Available with:

FILTRA CONSULTANTS AND ENGINEERS LTD.

Gala No. 2 & 3, Ground Floor, Neminath Industrial Estate No. 2, Navghar, Vasai (East), Dist.: Palghar - 401 219
Tel.: +91 8691009127/26 Email: filtraw@gmail.com Website: www.ewater-treatmentindia.com





INFLUENT LIMITATION

Free chlorine	Not traceable
Turbidity	Less than 2 NTU
Iron and heavy metals	Less than 0.1 ppm

OPERATING CHARACTERISTICS

Maximum Operating temperature	60 ° C
Resin bed depth	800 mm
Maximum service flow	60 m ³ /hr /m
Backwash flow rate (for 60 to 70% Expansion)	5 to 10 m ³ /hr/m ²
Regenerant	NaOH
Regeneration level	40 to 160 g/l
Regenerant Concentration	4 to 5%
Regeneration flow rate	5 to 10 m ³ /hr/m ³
Regeneration Contact Time	30 to 60 mins
Regeneration slow rinse	2 BV minimum
Slow Rinse flow rate	At regeneration flow rate
Fast Rinse	At Service flow rate

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

THERMAX

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.

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

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