

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 OF TULSION[®] A-23 SM

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	: 16 to 40 US Mesh
Particle size mm (95%)	: 0.4 to 1.2 mm
Uniform Coefficient	: 1.45 max
Total Exchange Capacity (minimum)	: 1.3 meq/ml
Moisture content	: 53 ± 3 %
Reversible Swelling (Cl to OH)	: 20%
Backwash settled density	: 670 to 710 g/l
Temperature stability	: 60 °C
Suitable pH range	: 0 to 14
Solubility	: Insoluble in All common solvents.



TYPICAL OPERATING CHARACTERISTICS OF TULSION® A-23 SM

Maximum operating temperature	: 60°C
Resin bed depth	: 800 mm
Maximum service flow	: 60 m ³ /hr/m ² .
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
Fast rinse volume	: 4 to 6 BV

Testing :

The sampling and testing of ion exchange resin 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 lines 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.

For further information, please contact: resins@thermaxindia.com



THERMAX

THERMAX LIMITED
CHEMICAL DIVISION

An ISO 9001 Company
97-E, GENERAL BLOCK,
M.I.D.C. BHOSARI,
PUNE 411 026, INDIA
TEL. : +91(20) 2712 0181, 2712 0169
FAX : +91(20) 2712 0206

E-mail : resins@thermaxindia.com

Website : www.thermaxindia.com/chemical

USA Office :
THERMAX INC.
21800 Haggerty Road
Suite 112
Northville, MI-48167
PHONE : 1-248-468-0541
FAX : 1-248-468-0546



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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