

TULSION® **A-23 P**

'Premium Grade' Strong Base Type I Anion Exchange Resin

TULSION® A-23 P is a premium grade strong base anion exchange resin based on polystyrene matrix containing quaternary ammonium Type I group having basicity equal to TULSION® A-23. **TULSION® A-23 P** has similar chemical properties as TULSION® A-23 but with greater matrix porosity.

TULSION® A-23 P has excellent operating characteristics along with effective removal of weak acids such as silicic and carbonic acids in hydroxide form. The porous gel structure of **TULSION® A-23 P** has an advantage over less porous gel resins when treating waters containing high molecular weight organic contaminants. The porous gel structure of **TULSION® A-23 P** facilitates both the removal of organic contaminants from influent waters and desorption of these contaminants from the resin with commonly used regeneration techniques. Therefore, **TULSION® A-23 P** provides excellent exchange capacity for inorganic as well as for organics.

TULSION® A-23 P is used in the field of water treatment in hydroxide form along with strong acid cation exchange resin TULSION® T-42 in hydrogen form, both in two bed and in mixed bed systems to produce high purity demineralized water. It is ideally suited for use in a wide range of pH and temperature conditions.



TYPICAL CHARACTERISTICS – TULSION® A-23P

Type	:	Strong base anion exchange resin
Matrix structure	:	Polystyrene Copolymer
Functional group	:	Quaternary ammonium Type I
Physical form	:	Moist Spherical Beads
Ionic form	:	Chloride
Screen Size USS (wet)	:	16 to 50
Particle size (95% min)	:	0.3 to 1.2 mm
Total Exchange Capacity	:	1.25 meq/ ml (min).
Moisture content	:	53 ± 3%
Swelling (approx)	:	Cl ⁻ to OH ⁻ 25%
Backwash settled density	:	42 to 44 lbs/ft ³ (670 to 710 g/l)
Thermal Stability °F/ °C	:	175/80
pH range	:	0 to 14
Solubility	:	Insoluble in all common solvents

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 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.