

TULSION® A-36

Strong Base Type II Anion Exchange Resin

TULSION® A-36 is a highly efficient and durable Type II strong base anion exchange resin with quaternary ammonium functionality and based on a cross linked polystyrene matrix. It has a slightly lower basicity than that of a Type I resin, but offers an exceptionally high operating capacity and excellent regeneration efficiency at equivalent regeneration levels. **Tulsion® A-36** is capable of splitting neutral salts and can remove weak acids such as silicic and carbonic acid, along with strong mineral acids. Due to its isoporous matrix, **Tulsion® A-36** exhibits better resistance to organic fouling as compared to conventional gel resins.

Besides its primary application in water treatment, Tulsion® A-36 is also used in de-alkalization. **Tulsion®A-36** is supplied in the chloride form as moist spherical beads.

TYPICAL CHARACTERISTICS – Tulsion® A-36

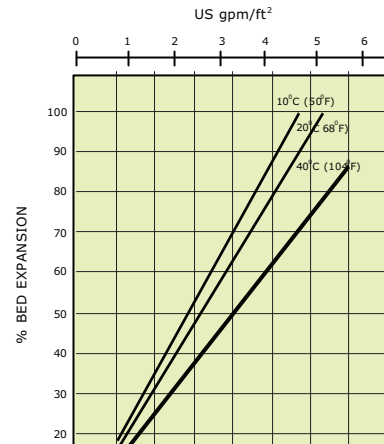
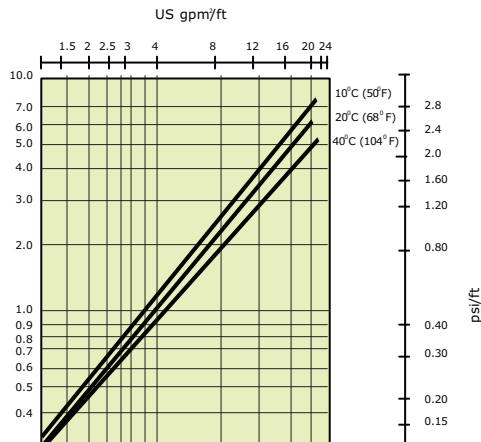
Type	:	Strong Base Anion Exchange Resin
Matrix structure	:	Cross-linked polystyrene
Functional group	:	Quaternary Ammonium Type II
Physical form	:	Moist spherical beads
Ionic form	:	Chloride
Screen size USS (wet)	:	16 to 50
Particle size (minm. 95%)	:	0.3 to 1.2 mm
Total exchange capacity (minm.)	:	1.3 meq/ ml
Swelling (approx.)	:	Cl ⁻ to OH ⁻ 9%
Moisture content	:	48 ± 3%
Backwash settled density	:	690 to 720 g/l (43-45 lbs/cft)
Shipping weight	:	0.71 kg/ lit (approx.)
Thermal stability °F/ °C	:	105/40 Cl ⁻
pH range	:	0 to 14
Solubility	:	Insoluble in all common solvents

TYPICAL OPERATING CONDITIONS – Tulsion® A-36

Maximum operating temperature	:	40 °C (105 °F)
Resin bed depth (minm.)	:	24" (600 mm)
Maximum service flow	:	60 m ³ /hr/m ³
Backwash expansion space	:	50 to 70 %
Backwash expansion flow rate at 25 °C (77 °F)	:	5 to 10 m ³ /hr/m ²
Regenerant	:	NaOH
Regenerant level	:	40 to 160g NaOH/l
Regenerant concentration	:	4 to 5 % NaOH
Regeneration time	:	15 to 60 mins.
Rinse flow rate : Slow	:	At regenerant flow rate
Fast	:	At service flow rate
Rinse volume	:	4 to 10 m ³ /m ³

Available with:

HYDRAULIC CHARACTERISTICS



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.

Available with:

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