

TULSION® A-27

Strong Base Anion Exchange Resin

TULSION® A-27 is a strong base anion exchange resin with an isoporous type structure based on polystyrene matrix, containing quaternary ammonium Type I group. The strong base groups, derived from quaternary ammonium groups, are capable of removing weak acids such as silicic and carbonic acids to very low levels.

TulSION® A-27 is supplied as moist spherical beads in the chloride form with a controlled particle size distribution to provide excellent kinetics and minimal pressure loss.

TulSION® A-27 is highly basic. In water treatment, it is employed in a hydroxide form along with the strong acid cation exchanger, TulSION® T-42 in H⁺, both in two bed and mixed bed systems to produce high quality de-ionized water, giving effluent with low silica residuals and low conductivity. Besides its primary application in water treatment, TulSION® A-27 is also commonly used for de-alkalization and other chemical processes. This resin has also better resistance to organic matter.

TYPICAL CHARACTERISTICS – TulSION® A-27

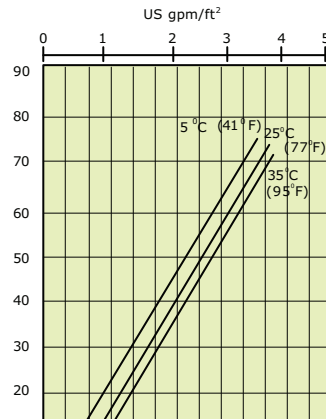
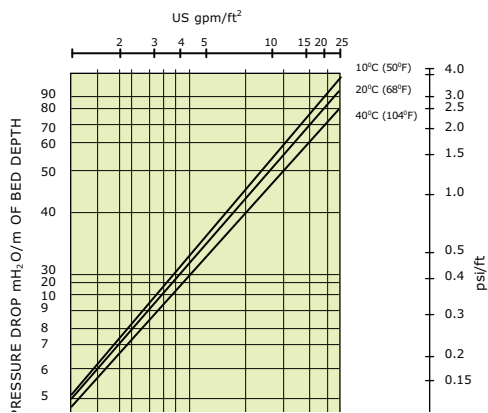
Type	:	Strong Base Anion Exchange Resin
Matrix structure	:	Cross-linked polystyrene
Functional group	:	Quaternary Ammonium Type I
Physical form	:	Moist spherical beads
Ionic form	:	Chloride
Screen size USS (wet)	:	16 to 50
Particle size (minm. 95%)	:	0.3 to 1.2 mm
Total exchange capacity (minm.)	:	1.3 meq/ml
Maximum operating temperature	:	140 °F /60 °C
Moisture content	:	50 ± 3%
pH range	:	0 to 14
Solubility	:	Insoluble in all common solvents
Backwash settled density	:	42 to 44 lbs/ft ³ (670 to 710 g/l)
Swelling (approx.)	:	Cl ⁻ to OH ⁻ 9%

TYPICAL OPERATING CONDITIONS – TulSION® A-27

Maximum operating temperature	:	60 °C (140 °F)
Resin bed depth (minm.)	:	24" (600 mm)
Maximum service flow	:	60 m ³ /hr/m ³ of resin
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	:	30 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 of resin

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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