

TULSION[®] A-62 MP N

PREMIUM GRADE MACROPOROUS STRONG BASE TYPE I ANION EXCHANGE RESIN

Tulsion[®] A-62 MP N is a premium grade macro-porous, Type I strong base anion exchange resin having excellent physical and chemical stability. It can be used over wide range of pH and temperature conditions. Food grade version for potable water treatment is also available.

Tulsion[®] A-62 MP N can take up nitrate from water containing other anionic impurities.

Tulsion[®] A-62 MP N is highly resistant to organic fouling.

Tulsion[®] A-62 MP N is NSF 61 certified resin, conditioned during manufacturing to achieve low VOCs, as per NSF 61 standard. However, it is recommended to follow pre-conditioning of resin before use as mentioned at the end of this literature.

TYPICAL CHARACTERISTICS OF TULSION[®] A-62 MP N

Type	Macro-porous 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)	16-50
Particle size (minimum. 95%)	0.3 to 1.2 mm
Total exchange capacity (minimum)	1.0 meq/ml
Swelling (approx.)	Cl- to OH- 21%
Moisture content	52 ± 3%
Backwash settled density	650 to 750 g/l
Maximum Operating temperature	90 °C
pH range	0 to 14
Solubility	Insoluble in all common solvents



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

TYPICAL OPERATING CONDITIONS OF TULSION® A-62 MP N	
Maximum operating temperature	90 Deg. C
Resin bed depth minimum	600 mm
service flow rate	5- 40 BV/Hr
Backwash flow rate (at 77 Deg.F)	2-4 gpm/ft ² (5 to 10 M ³ /Hr/m ²)
Regenerant	NaCl
Regeneration level	100 – 250 g NaCl/lit
Regenerent concentration	6 – 10 % NaCl
Regeneration time	15 – 60 minutes
Rinse flow rate : Slow	At regeneration flow rate
: Fast	At service flow rate
Rinse volume	30 to 75 gal/ft ³ (4 to 10 m ³ /m ³)

PRECONDITIONING OF RESIN:

- 1) Load resin in the column and Carry out back wash with process water to expand resin bed at least 50%-60% for 10 minutes. Allow resin to settle and drain water from the column up to resin bed level.
- 2) Fill resin column with 2 BV DI water and soak it for minimum 8 hrs
- 3) Drain water up to resin bed level.
- 4) Carry out brine regeneration using 8 lb/cft NaCl as 6% solution at 2 BV/hr flow rate. Rinse with DM water until effluent is chloride free.
- 5) Proceed with NSF testing

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 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.

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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