

TULSION[®] A-27 MP

Macroporous Strong Base Type I Anion Exchange Resin

TULSION[®] A-27 MP is a highly efficient and durable strong base Type I macroporous anion exchange resin having capacity equivalent to gel type anion resin. **TULSION[®] A-27 MP** belongs to the second generation macroporous ion exchange resins which have a distinctly different matrix structure from that of the gel type and conventional macroporous resins. **TULSION[®] A-27 MP** has a controlled pore structure which provides high operating capacity when used in demineralization of water along with strong acid cation exchanger **TULSION[®] T-42** in hydrogen form in two bed or mixed bed units. **TULSION[®] A-27 MP** is capable of reducing both strong and weak acids to very low levels. It is ideally suited for use in a wide range of pH and temperature conditions. **TULSION[®] A-27 MP** is supplied in chloride form. This resin has also better resistance to organic matter.

TYPICAL CHARACTERISTICS – Tulsion[®] A- 27 MP

Type	:	Macroporous 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 (minm. 95%)	:	0.3 to 1.2 mm
Total exchange capacity (minm.)	:	1.2 meq/ml
Swelling (approx.)	:	Cl ⁻ to OH ⁻ 9%
Moisture content	:	58 ± 3%
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

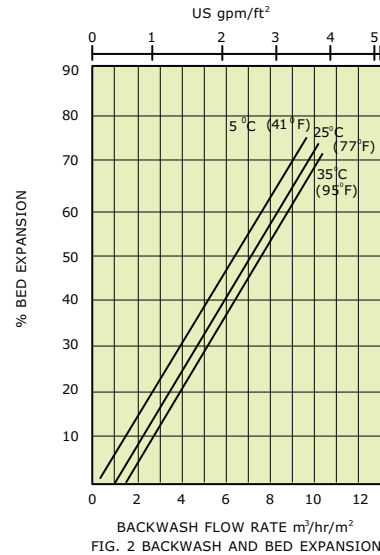
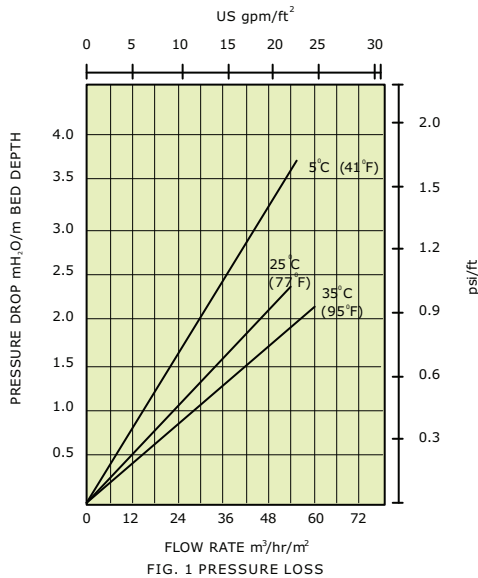
TYPICAL OPERATING CONDITIONS– Tulsion[®] A- 27 MP

Maximum operating temperature	:	175 °F (80 °C)
Resin bed depth minm.	:	24" (600 mm)
Maximum service flow	:	7.5 gpm/ft ³ (60 m ³ /hr/m ³)
Backwash expansion space	:	50 to 70 %
Backwash expansion flow rate 77 °F (25 °C)	:	2 to 4 gpm/ft ² (5 to 10 m ³ /hr/m ²)
Regenerant	:	NaOH
Regeneration level	:	2.5 to 10 lbs NaOH/ft ³ (40 to 160g NaOH/l)
Regenerant concentration	:	4 to 8% NaOH
Regeneration time	:	15 to 60 mins.
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)

INFLUENT LIMITATIONS

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

HYDRUALIC 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.

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.

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