

TULSION[®] A-27 MP SM

MACROPOROUS STRONG BASE TYPE I ANION EXCHANGE RESIN

Tulsion[®] A-27 MP SM 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 SM 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 SM has a controlled pore structure which provides high operating capacity when used in demineralization of water along with strong acid cation exchanger in hydrogen form in two bed or mixed bed units.

Tulsion[®] A-27 MP SM 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. It is supplied in chloride form. This resin has also better resistance to organic matter.

TYPICAL CHARACTERISTICS

| | |
|-----------------------------|--|
| Type | Macroporous strong base anion exchange resin |
| Matrix structure | Polystyrene copolymer |
| Functional group | Quaternary amine Type I |
| Physical form | Moist spherical beads |
| Ionic form | Chloride |
| Screen size USS (wet) | 16-40 |
| Particle size (95% minimum) | 0.4 to 1.2 mm |
| Uniformity coefficient | 1.5 max |
| Total exchange capacity | 1.2 meq/ml min |
| Moisture content | 58 ± 3% |
| Swelling (approx) | Chloride to OH : 09% |
| Temperature stability | 175 °F (80 °C) |
| Backwash settled density | 670 to 710 g/l |
| pHrange | 0 to 14 |
| Solubility | Insoluble in all common solvents |



INFLUENT LIMITATIONS

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

OPERATING CHARACTERISTICS

| | |
|---|--|
| Maximum Operating temperature | 175 °F (80 °C) |
| Resin bed depth | 24" (600 mm) |
| Maximum service flow | 7.5 gpm/ft ³ (60 m ³ /hr /m ³) |
| Backwash expansion space | 50 – 70 % |
| Backwash expansion flow rate at 77 °F (25 °C) | 5 – 10 m ³ /hr/m ² |
| Regenerant | NaOH |
| Regeneration level | 2.5 to 10 lbs NaOH/ft ³ (40 to 160g NaOH/l) |
| Regeneration concentration | 4 to 8 % |
| Regeneration time | 15 to 60 minutes |
| Rinse flow rate : Slow | At regeneration flow rate |
| : Fast | At service flow rate |
| Rinse volume | 4 to 10 m ³ / m ³ |

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 lined 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.



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