TULSION® T-52 H SM

Strong Acid Cation Exchange Resin – Special Mesh

TULSION® T–52 H SM is a premium grade strongly acidic cation exchange resin, with polystyrene matrix with excellent physical and chemical properties, It is supplied in moist spherical beads in the Hydrogen form.

TULSION® T–52 H SM the main advantage of this resin is exceptional physical and chemical stability. This resin exhibits excellent resistance to osmotic shocks due to its high bead strength and offer stable operating capacity.

TULSION® T-52 H SM This product is most suitable for water treatment and it is suitable for use in wide range of pH and elevated temperature conditions.

TYPICAL CHARACTERITICS OF TULSION® T- 52 H SM

Type	: Strong Acid Cation exchange resin
Matrix structure	: Styrene divinyl benzene copolymer
Functional group	: Sulphonic group
Physical form	: Moist Spherical beads
Ionic form	: Hydrogen
Particle size distribution mm (95%)	: 0.4 to 1.2 mm
Fines content % (< 0.4 mm)	: 1 % max.
Coarse bead % (>1.2 mm)	: 2 % max.
Uniform Coefficient	: 1.45 max
Total Exchange Capacity (minimum)	: 1.9 meq/ml
Moisture content	: 48 $\pm$ 3 %
Reversible Swelling	: Na to H – 6%
Backwash settled density	: 830 to 860 g/l
Suitable pH range	: 0 to 14
Temperature stability	: 120 ^{0} C
Solubility	: Insoluble in all common solvents.

TYPICAL OPERATING CHARACTERITICS OF TULSION® T-52 H SM

Maximum operating temperature	: 120^0C
Resin bed depth	: 800 mm
Maximum service flow	: 120 m3/hr/m2.
Backwash flow rate (for 60 to 70% Expansion)	: 9 to 25 m3/hr/m2.
Regenerant	: HCl & H2SO4.
Regeneration level	: 30 to 160 g/l HCl & 40 to 150 g/l H2SO4
Regenerant Concentration	: HCl (3 to 4%) & H2SO4 (1.5 to 5%)
Regeneration flow rate	: 2 to 16 m3/hr/m3
Regeneration Contact Time	: 20 to 60 mins.
Rinse flow rate	: Slow At regeneration flow rate minimum 2 BV
Fast Rinse	: At Service flow rate
Rinse volume	: 3 to 5 m3/m3

Testing :

The sampling and testing of ion exchange resin is done as per standard testing procedures, namely ASTMD-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 date 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.

For further information, please contact: resins@thermaxindia.com

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