

TULSION[®] T-40 Na

STRONG ACID CATION EXCHANGE RESIN – SODIUM FORM

TULSION®T-40 is a strong cation exchange resin of polystyrene sulphonated type supplied in sodium form, specially developed for industrial and domestic softening applications.

TULSION® T-40 has combined properties of high exchange capacity, with excellent physical and chemical properties under varied operating conditions.

TYPICAL CHARACTERISTICS	
Type	Strong acid cation exchange resin
Matrix structure	Polystyrene Copolymer
Functional group	Nuclear Sulphonic
Physical form	Moist Spherical Beads
Ionic form	Sodium
Screen Size USS (wet)	16 to 50
Particle size (95% min)	0.3 to 1.2 mm
Total Exchange Capacity	1.8 meq/ml (min)
Moisture content	50 ± 3%
Reversible Swelling (approx)	Sodium to Hydrogen : 10%
pH range	0 to 14
Solubility	Insoluble in all common solvents
Backwash settled density	800 to 830 g/ l
Temperature stability	140 °C



INFLUENT LIMITATION

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

CHARACTERISTICS

Maximum operating temperature	140°C
Resin bed depth (minimum)	600 mm
Maximum service flow	120 m ³ /hr/m ³
Backwash expansion space	40 – 75%
Backwash flow rate for 40-70% expansion	9 – 25 m ³ /hr/m ³
Regenerant	NaCl
Regeneration level	60 to 160 g/l
Regenerant concentration	10 – 15% NaCl
Regenerant flow rate	2 to 16 m ³ /hr/m ³
Regeneration time	20 to 60 min
Rinse flow rate: Slow	At regeneration flow rate
: Fast	At service flow rate
Rinse volume	3 – 5 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 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.



Thermax Limited
Environment House, Chemical Division,
90-92, BG Block, MIDC, Bhosari,
Pune - 411026, India.
Email: enquiry@thermaxglobal.com
Phone: +91 20 6715 6000
www.thermaxglobal.com

Thermax Inc.
16200 Park Row, Suite 190, Houston,
Texas 77084, USA
Email: customerservice@thermax-usa.com
Phone: +1 281-600-1331 – 5
www.thermax-usa.com

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Registered Office: Thermax Ltd., D- 13, MIDC, Industrial Area, R.D. Aga Road, Chinchwad, Pune- 411019, India.