

TULSION[®] T-42 Na FF

STRONG ACID CATION EXCHANGE RESIN

TULSION[®] T-42 Na FF is a premium quality strong acid cation exchange resin, containing sulphonic acid groups, having excellent exchange capacity, combined with excellent physical and chemical stability and operating characteristics, supplied as moist spherical beads in Sodium & Hydrogen form.

TULSION[®] T-42 Na FF is given a special treatment to make this resin free flow. This resin passes the special funnel test. This free flow has advantages in auto filling system, where is uniformly distributed and filled in required units.

TULSION[®] T-42 Na FF can be used for water softening of industrial purpose.

TYPICAL CHARACTERISTICS : TULSION[®] T-42 Na FF

Type	: Strong Acid Cation exchange resin
Matrix structure	: Styrene copolymer
Functional group	: Nuclear Sulphonic.
Physical form	: Free flow moist spherical beads.
Ionic form	: Sodium
Whole beads	: 95%
Particle Size Distribution (US mesh)	: 16 – 40 mesh.
Particle Size mm	: 0.3 to 1.2 mm.
Effective Size mm	: 0.45 to 0.55 mm
Uniform Coefficient	: 1.7 max
Total exchange capacity (meq/ml) (mini)	: 2.0
Moisture content %	: 45 ± 3%
Swelling Na → H	: 7 %
Backwash settled density	: 810-850 g/l
pH range	: 0-14
Solubility	: Insoluble in all common solvent
Temperature stability	: 140 ⁰ C



TYPICAL OPERATING CHARACTERISTICS – TULSION[®] T-42 Na FF

Maximum operating temperature	: 120°C
Resin bed depth (min)	: 800 mm
Maximum service flow	: 120 m ³ /hr/m ³
Backwash expansion space	: 40 to 75%
Backwash flow rate for 40-75% expansion	: 9 to 25 m ³ /hr/m ³
Regenerant	: HCl , NaCl
Regeneration level	: 60-160 g HCl/l & 80-200 g NaCl
Regenerant concentration	: 3 to 5% HCl & 10 to 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 to 10 m ³ /m ³

TESTING

The sampling and testing of ion exchange resin 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.

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



THERMAX

THERMAX LIMITED
CHEMICAL DIVISION

An ISO 9001 Company
97-E, GENERAL BLOCK,
M.I.D.C. BHOSARI,
PUNE 411 026, INDIA
TEL. : +91(20) 2712 0181, 2712 0169
FAX : +91(20) 2712 0206

E-mail : resins@thermaxindia.com

Website : www.thermaxindia.com/chemical

USA Office :
THERMAX INC.
40440 Grand River Avenue,
Novi, Michigan 48375
U.S.A.
Tel : 248-474-3050



In view of our constant endeavor to improve the quality of our products, we reserve the right to change their specifications without prior notice.