

TULSION[®] MB-1518

“PREMIUM MIXED ION EXCHANGE RESIN FOR HIGH PURITY WATER”

TULSION[®] MB – 1518 is a mixture of strongly acidic cation exchange resin **TULSION[®] T-42(NS)** in hydrogen form and a strongly basic anion exchange resin **TULSION[®] A-24** in hydroxide form in 1:1.5 volumetric ratios.

TULSION[®] MB – 1518 is ready to use mixed bed mixture suitable for high purity DM water (Ultra Pure water)

TULSION[®] MB- 1518 is recommended in any mixed bed application where reliable production of the highest quality water is required and where the supplied resin must have an absolute minimum of ionic and non-ionic impurities. Individual cation & anion exchange resins used in **TULSION[®] MB-1518** are manufactured by a specially developed process in which use of any chlorinated hydrocarbon solvents responsible for higher level of organic impurities in final resin is completely eliminated.

TULSION[®] MB- 1518 has absolutely minimum levels of ionic, non-ionic and organic impurities resulting into high quality of treated water. Volumetric ratio of anion to cation exchange resin is optimized to achieve maximum removal of boron, silica & other sensitive ions which are tough to remove.



INFLUENT LIMITATION

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

TYPICAL CHARACTERISTICS TULSION MB-1518

	TULSION® T-42(NS) H	TULSION® A-24 OH
Type	Strong Acid Cation Exchange Resin	Strong base anion exchange resin
Volume ratio	1	1.5
Matrix Structure	Cross linked polystyrene	Cross linked polystyrene
Functional Group	Sulfonic acid	Quaternary ammonium Type I
Physical Form	Moist spherical beads	Moist spherical beads
Ionic form supplied	Hydrogen	Hydroxide
Effective Size	0.45 to 0.55 mm	0.45 to 0.55 mm
Uniform coefficient	1.6 max	1.6 max
Total exchange capacity	1.8 meq/ml min of 99% in H form	1.0 meq/ml min of 90% in OH form
Moisture content %	48 ± 3%	68 ± 3%
Chlorides	Not applicable	<0.3%
pH range	0 to 14	0 to 14
Temperature stability (max.)	120°C	80°C
Backwash settled density(approx.)	800 to 840 gm/liter	670 to 710
Rinse water requirement	TOC : < 20 ppb Resistivity : > 16 Mega ohm	
Effluent water	TOC <5 ppb after (80 BV)	

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

LENNTECH

info@lennotech.com Tel. +31-152-610-900
www.lennotech.com Fax. +31-152-616-289

Ref:PDS / MKTG / Nov'16, Rev.01