

***TULSION*[®] MB-1160 UP UPS**

“MIXED ION EXCHANGE RESIN FOR ULTRAPURE WATER PRODUCTION”

TULSION[®] MB-1160 UP UPS is a mixture of strongly acidic cation exchange resin **TULSION[®] T-52 H UPS** in Hydrogen form and a strongly basic anion exchange resin **TULSION[®] A-33 OH UPS** in Hydroxide form in 1:2 volumetric ratios.

TULSION[®] MB-1160 UP UPS is ready to use mixed bed mixture suitable for very high purity DM water (Ultra Pure water).

TULSION[®] MB-1160 UP UPS 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. Resin ratio of anion to cation is volumetrically optimized to achieve maximum removal of boron, silica & other sensitive ions.



TYPICAL CHARACTERISTICS OF TULSION[®] MB - 1160 UP UPS

	TULSION [®] T-52 H UPS	TULSION [®] A-33 OH UPS
Type	Strong acid Cation exchange resin	Strong base Anion exchange resin
Volume ratio	1	2
Matrix Structure	Styrene divinyl benzene copolymer	Cross linked polystyrene
Functional Group	Sulphonic Group	Quaternary ammonium Type I
Physical Form	Moist spherical beads	Moist spherical beads
Ionic form supplied	Hydrogen	Hydroxide
Conversion %	99.5 % min in H form	95 % Max.in OH form
Uniform coefficient	1.4 max	1.4 max
Total exchange capacity	1.9 meq/ml Min.	1.0 meq/ml Min.
Moisture Content %	48 ± 3%	68 ± 3%
pH range	0 to 14	0 to 14
Temperature stability	120°C	80°C
Chlorides	Not applicable	< 0.5%
Backwash settled density	Approx.720 to 760 gm/liter	

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: chemicals@thermaxindia.com



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