

# Tulsion MB-111

## Mixed Bed Ion Exchange for Production of Pure DM Water

**Tulsion<sup>®</sup> MB-111** is a mixture of strongly acidic cation exchange resin Tulsion T-40 H in Hydrogen form and strongly basic type I anion exchange resin Tulsion A 33 OH in Hydroxide form in 1:1 volume ratio quantities. This resin combines high capacity with excellent chemical & physical properties.

**Tulsion<sup>®</sup> MB-111** is designed for use in the final polishing for production of pure water.

**Tulsion<sup>®</sup> MB-111** is specifically designed for wire EDM industries, where pure water is required.

## TYPICAL CHARACTERISTICS – Tulsion® MB- 111

RESIN NAME	TULSION T- 40 H	TULSION A- 33 OH
Type	: Strong Acid Cation Exchange Resin	Strong Base Anion Exchange Resin
Matrix structure	: Cross linked polystyrene	Cross linked polystyrene
Functional group	: Sulphonic acid	Quaternary Ammonium Type I
Physical form	: Moist spherical bead	Moist spherical bead
Ionic form	: Hydrogen	Hydroxide
Screen size USS (wet)	: 16 - 50	16 - 50
Particle size (mm)	: 0.3 -1.2	0.3 - 1.2
Total exchange capacity	: 1.6 meq/ml min of 99% in H form	1meq/ml min. 90% in OH form & max.1% in CI form.
Moisture content %	: 52 ± 3%	70 ± 3%
Backwash settled density	: Approximately 750 gm/ liter for both	
Temperature stability (max.)	: 250 °F / 120 °C	175 °F / 80 °C
pH range	: 0 -14	0 -14
Solubility	: Insoluble in all common solvents	Insoluble in all common solvents
Volume Ratio	50 %	50 %

## 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 sacks	1000 liters
MS drums	180 liters
HDPE lined bags	25 liters

Super sacks	35 cft
Fiber drums	7 cft
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 as per BIS/ASTM. We recommend that the user should determine the performance of the product by testing on own processing equipment.

For further information, please contact:



**THERMAX**

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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.

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