

TULSION[®] **MB-115**

Mixed Bed Ion Exchange Resin for Production of Ultra Pure Water

TULSION[®] **MB-115** is a mixture of strongly acidic cation exchange resin **TULSION**[®] **T-46** in Hydrogen form and strongly basic type I anion exchanger resin **TULSION**[®] **A-33** in Hydroxide form in 1:1.5 volume ratio quantities.

TULSION[®] **MB-115** is designed for use in the final polishing for production of ultra pure water.

TULSION[®] **MB-115** is the ideal choice for electronic industries, which manufacture semi conductors and television tubes, etc where ultra pure water is required. This resin combines high capacity with excellent physical properties.

TYPICAL CHARACTERISTICS – Tulsion® MB- 115

| RESIN NAME | TULSION T- 46 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 | Quaterenary 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 | : 1.8 meq/ml min of 99% in H form | 1 meq/ml min. 90% in OH form & max.1% in Cl form |
| Moisture content % | : 52 ± 3% | 70 ± 3% |
| Backwash settled density | : Approximately 750 gm/ liter | |
| 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 | : 1 | 1.5 |

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 |

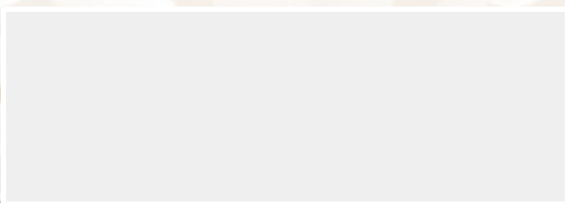
For Handling, Safety and Storage requirements please refer to the individual Material Safety Data Sheets available at our offices. The data included herein are based on test information obtained by Thermax Limited. These data are believed to be reliable, but do not imply any warranty or performance guarantee. 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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CHEMICAL DIVISION



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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