

# TULSION® MB-101CC

## “MIXED BED ION EXCHANGE RESIN FOR ULTRA PURIE APPLICATION”

TULSION® MB-101 CC is a mixture of strong acid cation exchange resin TULSION® T-46 (H) and strong base anion exchange resin TULSION® A-33(OH) in 1:1 volumetric ratio.

TULSION® MB-101 CC has a specially designed indicator that changes color from green to amber on exhaustion.

TULSION® MB-101 CC is suitable to produce the demineralized water for application such as window cleaning, Car washing etc. with objective to produce water with reasonable low TDS suitable for stain free washing for domestic and industrial applications.

### TYPICAL CHARACTERISTICS TULSION MB-101 CC

	TULSION®T-46	TULSION®A-33
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 beads	Moist spherical bead
Ionic form supplied	Hydrogen	Hydroxide
Screen Size U.S.mesh(wet)	16 to 50	16 to 50
Particle Size	0.3 to 1.2 mm	0.3 to 1.2 mm
Fines Content	Less than 0.425 2% passing through 40 U.S.mesh	Less than 0.425 2% passing through 40 U.S.mesh
Total exchange capacity	1.8 m.eq/ml minimum of 99% in hydrogen form	1.0 m.eq/ml minimum of 90% in OH form and less than 1% Cl form
pH range	0 to 14	0 to 14
Temperature stability	120°C	80°C
Solubility	Insoluble in all common solvents	Insoluble in all common solvents
Organic leachables	Less than 0.2 mg KMNO4 per ml of wet resin	70 ± 3%
Backwash settled density	Approx.750 gm/liter	
Impurities	Fe=50 ppm(max)	Fe=50 ppm(max)
	Cu=50 ppm(max)	Cu=50 ppm(max)
	Pb=50 ppm(max)	Pb=50 ppm(max)
Bead strength	Avg. not less than 500g/bead by Chatillon test	Avg. not less than 300g/bead by Chatillon test

INFLUENT LIMITATION	
Free chlorine	Not traceable
Turbidity	Less than 2 NTU
Iron and heavy metals	Less than 0.1 ppm

**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 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.

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  
 Environment House, Chemical Division,  
 90-92, BG Block, MIDC, Bhosari,  
 Pune - 411026, India.  
 Email: enquiry@thermaxglobal.com  
 Phone: +91 20 6715 6000  
 www.thermaxglobal.com

Thermax Inc.  
 16200 Park Row, Suite 190, Houston,  
 Texas 77084, USA  
 Email: customerservice@thermax-usa.com  
 Phone: +1 281-600-1331 – 5  
 www.thermax-usa.com

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Registered Office: Thermax Ltd., D-13, MIDC, Industrial Area, R.D. Aga Road, Chinchwad, Pune-411019, India.