



# TULSION®

## MB-101 CC

### COLOUR CHANGING RESIN

TULSION® MB-101 CC is a mixture of strongly acidic cation exchange resin in 1:1 volumetric ratio of Tulsion® T-46 in hydrogen form and strongly basic anion exchange resin Tulsion® A-33 in hydroxide form.

TULSION® MB-101 CC has a specially designed indicator which by its property of change of colour from green to amber indicates its exhaustion.

### TYPICAL CHARACTERISTICS

	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	Sulfonic acid	Quaternary ammonium Type I
Physical Form	Moist spherical beads	Moist spherical beads
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 1% passing through 50 U.S. mesh	Less than 1% passing through 50 U.S. mesh
Total exchange capacity	1.8 meq/ml minimum of 99% in hydrogen form	1.0 meq/ml minimum of 90% in hydroxide form and less than 1% in chloride form
Volume Ratio	1	1
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 KMNO <sub>4</sub> per ml of wet resin	Less than 0.2 mg KMNO <sub>4</sub> per ml of wet resin
Backwash settled density		710 to 750 g/l
Impurities		Fe= 50 ppm(max) Cu= 50 ppm(max) Pb= 50 ppm(max)

## Packing

TULSION® exchange resins are available in standard packaging as follows

Steel/fibre drum with double polyethylene lined	7 ft <sup>3</sup> , 180 liters
Polyethylene lined HDPE bags	1 ft <sup>3</sup> , 25 liters

*Data included herein are based on test information obtained by Thermax Limited. This data is believed to be reliable but does not imply any warranty or performance guarantee. We recommend the user determine performance by testing on his own processing equipment. We assume no liability or responsibility for patent infringement resulting from the use of the product.*



**THERMAX**

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

*TCD/RES/RP/MB-106CC/6-2000.*