

***TULSION*[®] MB-1122 HCLC**

“PREMIUM MIXED ION EXCHANGE RESINS FOR UPW WATER ”

TULSION[®] MB-1122 HCLC is a mixture of strongly acidic cation exchange resin **TULSION[®] T-55 H UPS** in Hydrogen form and a strongly basic anion exchange resin **TULSION[®] A-33 UPS LC NG** in hydroxide form in 1:2 volumetric ratios.

TULSION[®] MB-1122 HCLC is ready to use mixed bed mixture suitable for UPW water applications in Electronic and Semiconductor inds. This resin is designed for final polishing in ultrapure water generation.

TULSION[®] MB-1122 HCLC is recommended in any non-regenerable mixed bed application where reliable production of the highest quality water is required.



TYPICAL CHARACTERISTICS OF TULSION® MB-1122 HCLC

	TULSION® T-55 H UPS	TULSION® A-33 UPS LC NG
Type	Strong acid Cation exchange resin	Strong base Anion exchange resin
Volume ratio	1	2
Matrix Structure	Cross linked polystyrene	Cross linked polystyrene
Functional Group	Sulphonic acid	Quaternary ammonium Type I
Physical Form	Moist spherical beads	Moist spherical beads
Ionic form supplied	Hydrogen	Hydroxide
Uniform coefficient	1.4 max	1.4max
Total exchange capacity	2.1 meq/ml min of 99% in H form	1.0 meq/ml approx. 95% in OH form
Moisture Content %	45 + 3%	70 ± 3%
pH range	0 to 14	0 to 14
Temperature stability	120°C	80°C
	Sodium Content: <60 mg/gm	Chloride contents: <0.3% OH conversion: 95% Approx.
Backwash settled density	Approx. 700 to 750 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: resins@thermaxindia.com



THERMAX

THERMAX LIMITED
CHEMICAL DIVISION
An ISO 9001 Company
97-E, GENERAL BLOCK,
M.I.D.C. BHOSARI,
PUNE 411 026, INDIA
TEL. : +91(20) 2712 0181, 2712 0169
FAX : +91(20) 2712 0206
E-mail : resins@thermaxindia.com
Website : www.thermaxindia.com/chemical

USA Office:
Thermax Inc.
21800 Haggerty Road
Suite 112
Northville, MI 48167
Office Phone: 248-468-0541
Ext. 403
Fax Number: 248-468-0546



PMG-R/YM/Sept-12