

TULSION[®] CXO-12 MP

High Capacity Macroporous Weak Acid Cation Exchange Resin

TULSION[®] CXO-12 MP is a premium quality high capacity macroporous weak acid cation exchange resin supplied as moist spherical beads in the hydrogen form. The functional group of the resin is carboxylic acid.

TULSION[®] CXO-12 MP has excellent physical and chemical stability and operating characteristics especially lower reversible swelling.

It is suitable for water demineralization, de-alkalization and selective removal of heavy metals. It is suited for operation over a wide pH range and temperature conditions. In sodium form this resin is used for softening of water containing high hardness and TDS.

TYPICAL CHARACTERISTICS – TULSION[®] CXO-12MP

Matrix structure	:	Polyacrylic copolymer
Functional group	:	Carboxylic
Physical form	:	Moist spherical beads
Screen size U.S.S (wet)	:	16 to 50
Particle size (minm. 95%)	:	0.3 to 1.2 mm
Total exchange capacity(min)	:	4.1 meq/ml
Swelling (approx.)	:	H ⁺ to Na ⁺ 70% (approx.)
Moisture content (approx.)	:	47 ± 3 % (approx.)
Backwash settled-density	:	750 to 790 g/l (47 to 49 lbs/cft)
Maximum operating temperature	:	210° F / 100° C
pH range	:	5 to 14
Solubility	:	Insoluble in all common solvents

TYPICAL OPERATING CONDITIONS– TULSION[®] CXO-12MP

Maximum operating temperature	:	100° C (212° F)
Resin bed depth (minm.)	:	24" (600 mm)
Maximum service flow	:	60 m ³ /hr/m ³
Backwash expansion space	:	75 to 100 %
Backwash expansion flow rate at 25° C (77° F)	:	8 to 15 m ³ /hr/m ²
Regenerant	:	HCL/H ₂ SO ₄
Regenerant level	:	120% of operating capacity
Regenerant concentration	:	0.7 to 3% for H ₂ SO ₄ /2 to 4% for HCL
Regeneration time	:	20 to 60 mins.
Rinse flow rate : Slow	:	At regenerant flow rate
Fast	:	At service flow rate
Rinse volume	:	3 to 10 m ³ /m ³



HYDRAULIC CHARACTERISTICS

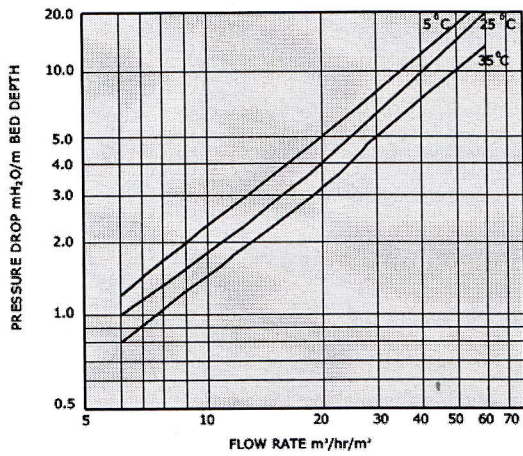


FIG. 1 PRESSURE LOSS

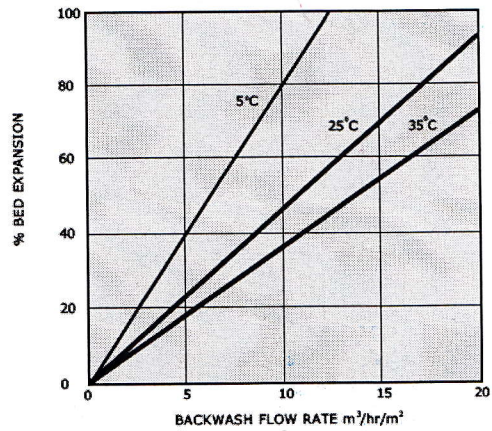


FIG. 2 BACKWASH AND BED EXPANSION (Ca²⁺ FORM)

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:



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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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