LENNTECH
Water Treatment Solutions

THERMAX

TULSION® A-7X MP SM

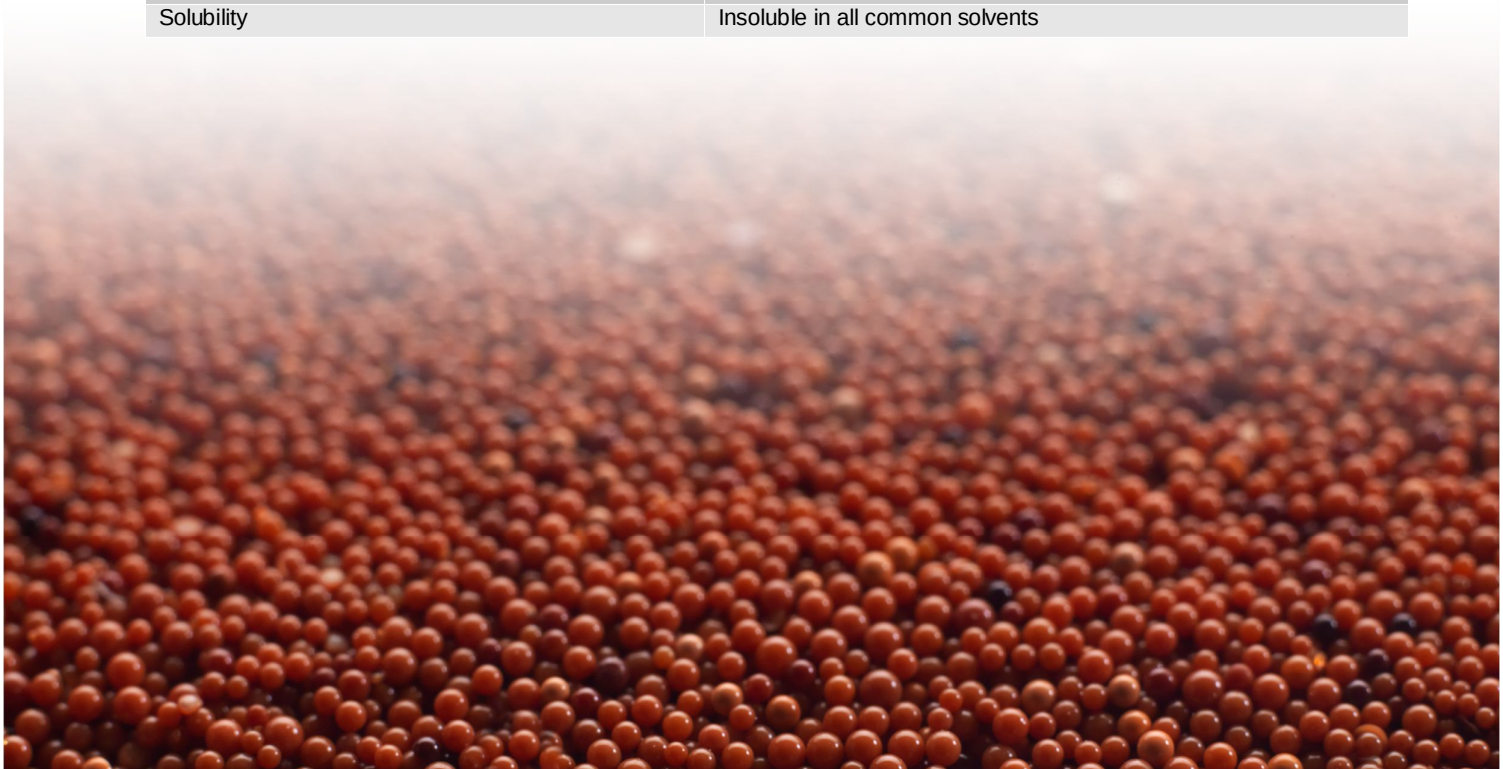
WEAK BASE ANION EXCHANGE RESIN

TULSION® A-7XP SM is an extremely durable macro-porous week base anion exchange resin characterized by tertiary amine groups attached to a styrene divinyl benzene copolymer matrix. It has unique physical structure that gives it superior kinetics and greater resistance to osmotic shock than gel type weak base anion exchangers.

TULSION® A-7X MP SM yields exceptionally high operating capacity on caustic soda regeneration and has low rinse requirements. It has a higher resistance to organic matter than gel type anion exchangers.

TULSION® A-7X MP SM is supplied as spherical moist beads in the free base form, ready to use.

TYPICAL CHARACTERISTICS	
Type	Weak base anion exchange resin
Matrix structure	Polystyrene copolymer
Functional group	Tertiary amine
Physical form	Moist spherical beads
Ionic form	Free base
Screen size USS (wet)	16-40
Particle size (95% minimum)	0.4 to 1.2 mm
Uniformity coefficient	1.5 max
Total exchange capacity	1.3 meq/ml min
Moisture content	55 ± 3%
Swelling (approx)	Free base to Chloride : 18%
Temperature stability	175 °F (80 °C)
Backwash settled density	640 to 680 g/l
Solubility	Insoluble in all common solvents



OPERATING CHARACTERISTICS		
Maximum Operating temperature		175 °F (80 °C)
Resin bed depth		600 mm
Maximum service flow		40 m^3/hr /m^3
Backwash expansion space		50 – 70 %
Backwash expansion flow rate at 77 °F (25 °C)		4 – 6 m^3/hr/m^2
Regenerant		NaOH, Na_2CO_3, NH_4OH
Regeneration level		120% the operating capacity for NaOH
Regeneration concentration		1 to 5 %
Regeneration time		20 to 60 minutes
Rinse flow rate	: Slow	At regeneration flow rate
	: Fast	At service flow rate
Rinse volume		2 to 7 m^3/ m^3

TESTING :

The sampling and testing of ion exchange resins is done as per standard testing procedures, namely ASTMD-2187 and IS-7330, 1998.

PACKING :

Super Sack	1000 lit.	Super Sack	35 cft
MS drums	180 lit.	Fiber Drums	7 cft
HDPE lines 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 date 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 specification without prior notice.

THERMAX

Thermax Limited

LENNTECH

info@lenntech.com Tel. +31-152-610-900

www.lenntech.com Fax. +31-152-616-289