

Tulsion® Demineralization Cation Exchange Resins

Tulsion®	T-42	CXO-9	CXO-12	CXO-12MP
TYPE	Strong acid	Weak acid	Weak acid	Weak acid
MATRIX STRUCTURE	Polystyrene Copolymer	Polystyrene Copolymer	Polystyrene Copolymer	Polystyrene Copolymer
FUNCTIONAL GROUP	Nuclear sulphonic	Carboxylic	Carboxylic	Carboxylic
IONIC FORM SUPPLIED	Hydrogen	Sodium Hydrogen	Hydrogen	Hydrogen
SCREEN SIZE (U.S. MESH)	16-50	16-50	16-50	16-50
PARTICLE SIZE (mm)	0.3-1.2	0.3-1.2	0.3-1.2	0.3-1.2
MAXIMUM TEMP. STABILITY (°C /°F)	120°C H ₊ 250°F	100°C 210°F	100°C 210°F	100°C 210°F
pH RANGE	0-14	5-14	5-14	5-14
TOTAL EXCHANGE CAPACITY (Meq/ml)	2.0	4.0	4.2	3.8
BACKWASH SETTLED DENSITY lbs/cft (gm/lit)	50-52 H ⁺ 800-840 H ⁺	42-44 Na ⁺ 670-710 Na ⁺	47-49 750-790	47-49 750-790

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		46-48 H ⁺ 730-770 H ⁺		
REVERSIBLE SWELLING %	Na ⁺ >> H ⁺ 7	H ⁺ >>Na ⁺ 100	H ⁺ >>Na ⁺ 75	H ⁺ >>Na ⁺ 70
MOISTURE CONTENT APRX. %	52	62 Na ⁺ 47 H ⁺	44 H ⁺	44 H ⁺
FEATURES	High capacity gel cation exchange resin, with excellent physical and chemical properties	High capacity acrylic weak acid cation exchange resin with excellent physical and chemical stability	High capacity acrylic weak acid cation exchange resin with excellent physical and chemical stability	Macroporous acrylic weak acid cation exchange resin with excellent physical and chemical stability
APPLICATIONS	Softening, multiple and mixed bed demineralisation, dealkalization, chemical processing etc.	Water deionization, dealkalization, selective heavy metal removal. Softening of high salinity waters in sodium cycle.	Water deionization, dealkalization, selective heavy metal removal. Softening of high salinity waters in sodium cycle.	Water deionization, dealkalization, selective heavy metal removal. Softening of high salinity waters in sodium cycle.

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