

# ***TULSION®***



## ***CXO-12***

### **WEAK ACID CATION EXCHANGE RESIN**

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Tulsion®CXO-12 is a premium quality gel weak acid cation exchange resin, containing carboxylic acid groups. It is supplied as moist spherical beads in Hydrogen form.

Tulsion®CXO-12 has excellent physical and chemical stability and operating characteristics especially lower reversible swelling.

Tulsion®CXO-12 is suitable for water demineralization in multiple or layered bed deionization units for waters containing appreciable amounts of both alkalinity and hardness. In multiple bed systems CXO-12 should be employed as a primary cation unit followed by a secondary bed of strongly acidic cation resin like Tulsion T-42. In layered bed application CXO-12 and T-42 are charged to the same unit with CXO-12 on top.

Dealkalization (removal of bicarbonate and carbonates ) can be effectively done by CXO-12 in Hydrogen form. A degassifier is placed after the weak acid cation unit to remove carbondioxide. Adjustment of pH may be required for some applications. CXO-12 is also used as a buffer filter.

Tulsion CXO-12 can also be used for the selective removal of heavy metals in some waste treatment applications.

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## TYPICAL CHARACTERISTICS

Type	:	Weak Acid cation exchange resin
Matrix Structure	:	Cross Linked acrylic- Divinylbenzene
Functional group	:	Carboxylic
Physical form	:	Moist spherical beads
Ionic form	:	Hydrogen/ Sodium
Particle Size	:	0.3-1.2mm
Screen Size U.S.S	:	16 to 50
Total Exchange capacity	:	4.1 meq/ml
Operating pH range	:	5-14
Moisture content	:	Approx. 47% in H <sup>+</sup> form
Reversible swelling (approx.)	:	H <sup>+</sup> to Na <sup>+</sup> 75%
Maximum Operating temperature	:	212° F
Backwash settled density	:	47 to 49 lbs/ft <sup>3</sup> in H <sup>+</sup> form
Solubility	:	Insoluble in all common solvents
Regeneration	:	0.7-4% of Mineral acids like HCl or H <sub>2</sub> SO <sub>4</sub> 5-10% of NaCl



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**THERMAX**

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