

Aldex C-800 Series • Domestically manufactured using no chlorinated solvents • Lowest TOC

C-800x10H LS Low Sodium Cation Resin - Hydrogen Form

Aldex C-800x10H LS is a **strongly acidic, high purity gel-type cation resin** supplied in the highly regenerated hydrogen form and **contains very low levels of sodium**. This resin is manufactured under special conditions in order to meet the exacting requirements for **ultrapure water production**. The black color of this premium cation resin makes it ideally suited to be paired with the light colored Aldex SB-1 P OH SC, a gellular strong base type 1 anion resin. The **extremely low metal content** of Aldex C-800x10H LS meets the requirements of the **nuclear power industry** allowing this product to be used in power generation as well as working or polishing mixed beds.

Physical Chemical Properties

Polymer Structure:	Sulfonated styrene/ divinylbenzene copolymer
Ionic Form as Shipped:	Hydrogen
Physical Form:	Tough, spherical, black beads
Screen Size Distribution:	
+20 mesh (U.S. Std.)	2% maximum
-20+40 mesh	98%
-40 mesh	2% maximum
-50 mesh	<0.3%
pH Range:	0 to 14
Moisture Content	46 to 54%
Conversion to H ⁺ Form:	99% minimum
Shipping Weight:	50 lbs per cubic foot
Total Capacity H ⁺ Form:	2.1 meq/ml minimum
Specific Gravity:	1.26
Breaking Weight:	350 g/bead average 95% > 250 g/bead

Safety Information

A material safety data sheet is available for Aldex C-800x10H LS. Copies can be obtained from Aldex Chemical Co., LTD. C-800x10H LS is not a hazardous product and is not WHMIS controlled.

Caution: Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Before using strong oxidizing agents in contact with ion exchange resin, consult sources knowledgeable in the handling of these materials.

C-800x10H LS Features

Very Low Sodium and Metal Content

Special manufacturing conditions ensure very low metal content.

Elemental analysis, dry basis

Sodium (Na)	<10 ppm
Cobalt (Co)	<10 ppm
Copper (Cu)	<10 ppm
Aluminum (Al)	<50 ppm
Iron (Fe)	<50 ppm

No Organic Chlorides Leakage

No chlorinated solvents are used in the manufacturing of Aldex C-800x10H LS resulting in no leakage of organic chlorides.

Very Low TOC

Non solvent sulfonation and special manufacturing processes assure very low TOC leakage.

Uniform Particle Size

98% of all beads are in the minus 16 to plus 40 mesh range: giving a lower pressure drop while maintaining the superior kinetics of standard mesh size products.

Superior Physical Stability

90% plus sphericity and high crush strengths together with a very uniform particle size provide greater resistance to bead breakage while maintaining low pressure drop.

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