

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

C-800H (SC) High Purity Cation Resin (Low Sodium)

*Aldex C-800H (SC) 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-800H (SC) 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:	
+16 mesh (U.S. Std.)	Less than 1%
-16+40 mesh	98%
-40+50 mesh	1% maximum
pH Range:	0 to 14
Moisture Content:	50 to 56%
Uniformity Coefficient:	1.4 maximum
Conversion to H ⁺ Form:	99% minimum
Shipping Weight:	49 lbs per cubic foot
Total Capacity H ⁺ Form:	1.8 meq/ml minimum
Specific Gravity:	1.23

Safety Information

A material safety data sheet is available for Aldex C-800H (SC). Copies can be obtained from Aldex Chemical Co., LTD. Aldex C-800H (SC) 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-800H (SC) 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-800H (SC) 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.

Aldex Chemical Company, Ltd. • 630 Laurent Street • Granby QC Canada J2G 8V1
450 372 8844 • Fax 450 372 2566 • info@aldexchemical.com

These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However, we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents. Further, we assume no liability for the consequences of such actions.

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