Aldex C-800 Series • Manufactured in Canada using no chlorinated solvents • Lowest TOC

C-800x10 Water Softening Resin Sodium Form

NSF/ANSI 44, 61 and 372 Certified. Aldex C-800x10 is a high capacity, high quality, gel-type cation resin capable of meeting the most exacting requirements of household, farm, commercial, institutional and industrial water softeners. It is supplied in the sodium form as black colored beads in 1 cubic foot bags and larger bulk packages.

Physical Chemical Properties

Resin Composition: Sulfonated styrene / divinylbenzene copolymer

Ionic Form as Shipped: Sodium (Na+)

Physical Form: Black colored beads

Moisture Content: 41 to 44%

Total Capacity: 2.2 meq/ml minimum

45 kilograins as CaCO₃

per cubic foot

Odor and Taste: None Specific Gravity: 1.28

Net Weight (as shipped): 51 lbs per cubic foot

Particle Size: 16 to 50 mesh - Less than 0.5% through 50 mesh

Recommended Operating Conditions

Influent pH: No restrictions

Maximum Temperature: 250 °F

Bed Depth: Minimum 24"

Normal 36"

Service Flow Rate: 1 to 5 US GPM per

cubic foot

Backwash Flow Rate: See Fig. 2

Regenerant: Sodium Chloride (NaCl) or

Potassium Chloride (KCI)

Regenerant Strength: 5 to 15%, usually 10% Regenerant Flow Rate: 0.3 to 1.0 US GPM per

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Regenerant Contact Time: 15 to 60 minutes

Regenerant Dosage Level: 2 to 15 lbs per cubic foot

Slow Rinse (Displacement) Flow Rate: 0.3 to 1.0 US GPM per

cubic foot of resin

Slow Rinse Volume: 20 USG per cubic foot resin

Fast Rinse Rate: 1.0 to 5.0 US GPM per

cubic foot resin

Fast Rinse Volume: 30 USG per cubic foot resin

Aldex C-800x10 Features

No Chlorinated Solvents

The absence of chlorinated solvents in the manufacturing of Aldex C-800x10 results in very low TOC leakage.

Very low color, taste or odor

Aldex C-800x10 meets the requirements for paragraph 173.25 of the Food Additive Regulation of the U.S. Food and Drug Administration.

High Capacity

30,000 grains of softening capacity when regenerated with 15 lbs of NaCl per cubic foot and 20,000 grains with 6 lbs of NaCl per cubic foot. ensuring high efficiency and low operating costs.

Long Life

Strong and durable beads insure long service life.

Reliability

Over 34 years of actual field usage by thousands of customers demonstrate the reliability of Aldex C-800x10.

Safety Information

A material safety data sheet is available for Aldex C-800x10. Copies can be obtained from Aldex Chemical Co., LTD. Aldex C-800x10 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.



Tested and Certified by WQA according to NSF/ANSI standards 44, 61, and 372 for materials safety only.



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C-800x10 Operating Suggestions

Iron

Aldex C-800x10 will remove most of the dissolved iron, can filter much of the suspended iron and may or may not remove organically bound iron from water. When softeners are used to remove iron from the water, periodic cleaning of the bed mechanically or with a chemical iron cleaner may be necessary.

Chlorine

All cation exchange resins are affected by chlorine and suffer degradation and swelling. Is its recommended that the chlorine in the water be maintained below 1.0 ppm when using Aldex C-800x10.

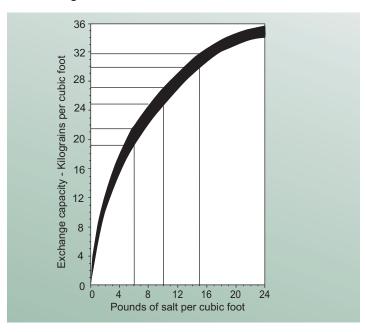


Fig. 1 Exchange capacity vs. regeneration level Sodium form C-800x10 Cation Resin

Backwash Characteristics

Aldex C-800x10 should be backwashed for at least 10 minutes after each service cycle in a conventionally down flow regenerated softener. To reclassify the beads and remove suspended solids from the top of the bed, the resin bed should be expanded at least 50% according to Fig. 2.

In the case of non-conventional or upflow regenerated softeners, it may not be necessary to follow the above procedure since the backwash and brine injection are incorporated in the same step.

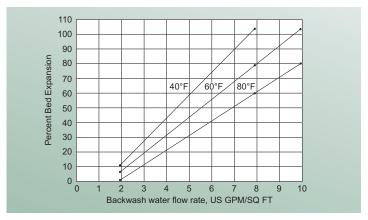


Fig. 2 Bed expansion vs. backwash flow rate for various water temperatures

