C-800x10 Water Softening Resin Sodium Form

Tested and certified by WQA according to NSF/ANSI/CAN 61 and 372, NSF/ANSI 44 and CSA B483.1. 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 25 litre 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
Odor and Taste:	None
Specific Gravity:	1.28
Net Weight (as shipped):	810 to 830 g/l
Particle Size:	300 to 1200 μ <0.5% through 300 μ

Recommended Operating Conditions

Slow Rinse (Displacement) Flow Rate: 3 to 8 BV/h

Influent pH:

Bed Depth:

Regenerant:

Maximum Temperature:

Service Flow Rate:

Backwash Flow Rate:

Regenerant Strength:

Slow Rinse Volume:

Fast Rinse Volume:

Fast Rinse Rate:

Regenerant Flow Rate:

Regenerant Contact Time:

Regenerant Dosage Level:

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

1.4 eq/l grains of softening capacity when regenerated with 240 g/l of NaCl and 1.0 eq/l grains with 96 g/l of NaCl ensuring high efficiency and low operating costs.

Long Life

Strong and durable beads ensure long service life.

Reliability

Over 40 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.



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No restrictions

Minimum 60 cm Normal 90 cm

Sodium Chloride (NaCl) or Potassium Chloride (KCl)

5 to 15%, usually 10%

8 to 40 BV/h

See Fig. 2

3 to 8 BV/h

80 to 240 g/l

8 to 40 BV/h

2 to 4 BV

4 to 8 BV

15 to 60 minutes

150 °C

Since 1976

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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.

*The removal of iron was not evaluated in the WQA certification.

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.

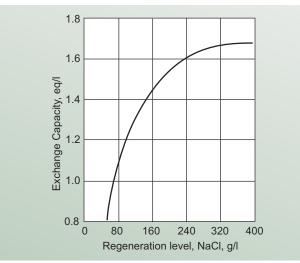
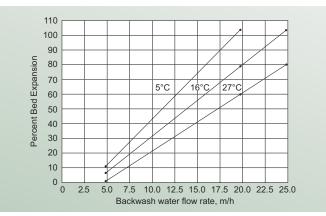


Fig. 1 Exchange capacity vs. regeneration level Sodium form C-800x10 Cation Resin

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. For 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.





Pressure Drop

Figure 3 shows the expected pressure loss per foot of bed depth as a function of flow rate at various temperatures.

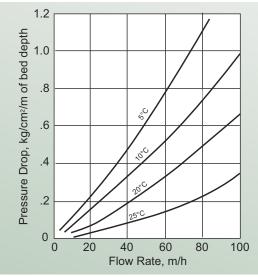


Fig. 3 Pressure Drop vs. Flow Rate



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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.