

Aldex CR Series

CR 9 MP Macroporous Strong Base Anion Exchange Resin

Tested and certified by WQA according to NSF/ANSI/CAN 61. Aldex CR 9 MP is a **macroporous, strong base anion exchange resin** used in the removal of PFAS, PFOA, PFOS and perchlorate from potable water, wastewater and groundwater.

Physical Chemical Properties

Polymer Structure:	Macroporous, styrene / divinylbenzene
Functional group:	Tributylamine
Physical Form:	Spherical beads
Particle Size (>98%):	0.315 to 1.25 mm
Moisture Content:	50 to 57%
Bulk Density:	650 to 750 g/l
Total Capacity:	≥0.6 eq/L

Recommended Operating Conditions

Maximum Temperature (Cl ⁻):	60°C
Minimum Bed Depth:	75 cm
Service Flow Rate:	8 to 40 BV/h
Backwash Flow Rate:	See Fig. 1
Inlet Water Limitations	
Turbidity	1.0 ppm maximum
Free Chlorine	1.0 ppm maximum

CR 9 MP Features

Very low color, taste or odor

Aldex CR 9 MP meets the requirements listed in paragraph 173.25 of the Food Additive Regulation of the U.S. Food and Drug Administration.

Long Life

Strong and durable beads ensure long service life.

Reliability

Aldex Chemical's over 45 years of field usage by thousands of customers demonstrates the reliability of Aldex ion exchange resins and other water treatment media.

Safety Information

An Aldex CR 9 MP material safety data sheet is available from Aldex Chemical Co., LTD. Aldex CR 9 MP is not a hazardous product and is not WHMIS controlled.



Tested and certified by WQA according to NSF/ANSI/CAN 61 for materials safety only. For use restrictions, please visit www.wqa.org.

Backwash Characteristics

Load the Aldex CR 9 MP resin in the pressure vessel. Then, backwash the resin bed at a rate that expands the bed 50 to 75 percent to remove any foreign matter, air pockets and reclassify the bed. Aldex CR 9 MP is backwashed **ONLY ONCE**—after the initial loading and prior to start-up.

When the bed has settled, it is ready to begin operating on a continuous flow or intermittent basis. There are no regenerant chemicals to purchase and store and no waste stream generated requiring neutralization or haulage.

Fig. 1 shows the expansion characteristics of the Aldex CR 9 MP in the chloride form.

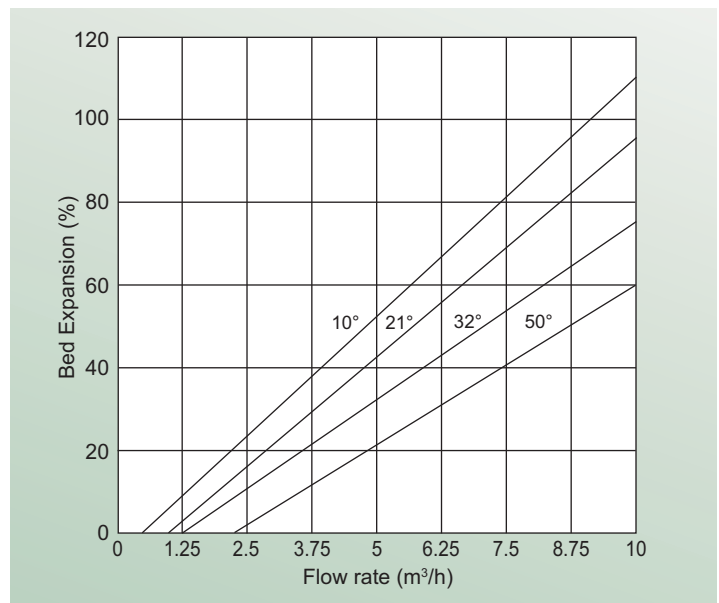


Fig. 1 Bed Expansion vs Flow Rate at various degrees Celsius (C°)



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Performance

Extensive, long-term lab and pilot testing of Aldex CR 9 MP versus several competitive resins clearly shows comparable removal capacity for PFAS*, PFOA and PFOS

compounds. See Figures 2a and 2b for PFOS and PFOA data respectively.

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

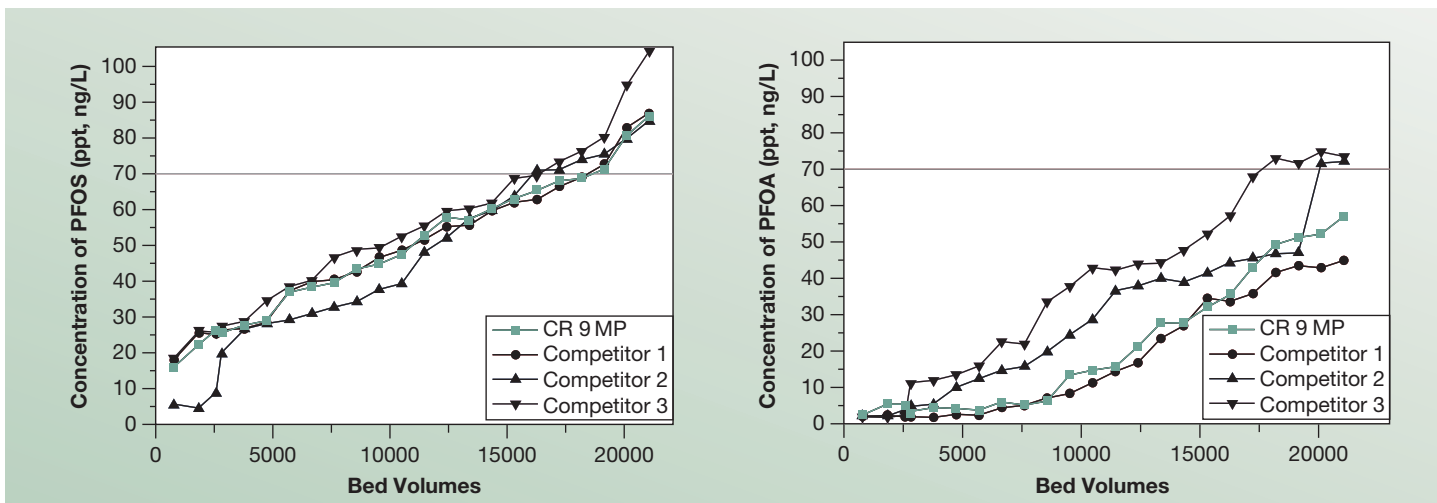


Fig. 2a and 2b Comparative testing of adsorption performance between Aldex CR 9 MP and other competitors (feed concentration 10 ug/L, flow rate 20 BV/h)



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

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