

## Aldex Strong Base Anion Series

# SB-1P OH UPS Strong Base Anion Exchange Resin - Hydroxide Form

Aldex SB-1P OH UPS is a **high capacity, gel type strong base type 1 anion exchange resin with narrow bead size distribution, supplied in the hydroxide (OH) form**. It is based on a styrene-divinylbenzene copolymer matrix with quaternary ammonium functional groups. Aldex SB-1P OH UPS is specifically **designed to give high throughput and economical operation in demineralizer applications**. Because of uniform particle size of this resin, it offers several economic advantages over conventional (i.e. Gaussian distributed) resins, including higher operating capacity or longer runs.

## Physical Chemical Properties

Polymer Structure:	Gellular polystyrene - divinylbenzene matrix
Ionic Form as Shipped:	OH <sup>-</sup>
Functional Group:	Quaternary Ammonium, Type 1
Physical Form:	Spherical beads
Moisture Content:	55 to 65%
Uniformity Coefficient:	1.30
Harmonic Mean Diameter:	500 to 700 micron
Reversible Swelling, Cl <sup>-</sup> to OH <sup>-</sup> :	20% maximum
Conversion to OH Form:	> 90%
Conversion to Cl Form:	≤ 2%
Conversion to CO <sub>3</sub> Form:	< 5.0%
Conversion to SO <sub>4</sub> Form:	≤ 0.1%
Shipping Weight:	40 to 42 lbs per cubic foot
Total Capacity OH <sup>-</sup> Form:	1.1 eq/l (21.8 Kgr/ft <sup>3</sup> )
Specific Gravity:	1.07

## Recommended Operating Conditions

Maximum Temperature:	
Cl <sup>-</sup> Form	212°F
OH <sup>-</sup> Form	140°F

## SB-1P OH UPS Features

### Very Low Color, Taste or Odor

Aldex SB-1P OH UPS meets the requirements for 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 has over 40 years of field usage by thousands of customers demonstrating the reliability of Aldex ion exchange resins, zeolites, and other water treatment media.

## Applications

Demineralization; suitable for whole bead or powdered resin usage.

## Safety Information

A material safety data sheet is available for Aldex SB-1P OH UPS. Copies can be obtained from Aldex Chemical Co., LTD. Aldex SB-1P OH UPS 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.

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

