

## 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:	1.2 maximum
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 insure long service life.

### Reliability

Aldex Chemical has over 34 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.

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