

# DI-tech<sup>®</sup> DI Series • for De-ionized Process Water and Packed Bed Designs

## UXA-2 OH Plus High Purity Uniform Bead Type II DI Resin

*DI-tech UXA-2 OH is a Type II gel styrenic strong base anion resin that is fully regenerated (92% minimum OH-) and ready to use for higher capacity applications. It is rinsed to low TOC giving low taste and odor. It is made from size-controlled uniform gold colored bead SBA for easy separation and visual recognition when used in mixed bed applications. It is specially designed for portable exchange, packed beds and cartridge applications where higher capacity (than Type I) is needed while maintaining good silica removal properties.*

### Physical and Chemical Properties

Polymer Structure:	Styrene/ divinylbenzene copolymer
Functional Groups	Type II quaternary
Ionic Form as Shipped:	Hydroxyl (OH-)
Physical Form:	Tough, spherical gold colored beads
Total Capacity	1.4 meq/ml (Cl form) 30.6 Kgr/cu ft
Screen Size Distribution:	
+16 mesh (U.S. Std.)	Less than 1%
-20+40 mesh	96%
-40+50 mesh	Less than 1%
Uniformity Coefficient	1.2 (max)
Moisture Content	(Cl-) 41-44%
pH Range Stability	0-14
Temperature Limits	35°C (95°F) OH- form 85°C (185°F) Cl- form
Shipping Weight:	42-44 lbs per cubic ft
Packaging	28.32 liter (1 cu ft) bags

### Chemical Stability

**DI-tech UXA-2 OH** is insoluble in moderately concentrated acids, alkalis and in most common solvents. Long term exposure to strong oxidizers such as nitric acid or peroxide should be avoided as this can cause a rapid exothermic reaction and possible explosion. **Type II resins are temperature sensitive and should not be operated or regenerated above 95°F in OH- form.**

### Safety Information

A material safety data sheet is available for DI-tech UXA-2 OH. Copies can be obtained from WECO Filters. Phone (888-675-5187). DI-tech UXA-2 OH 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.

### UXA-2 OH Features and Benefits

#### High Regeneration Efficiency

Type II SBA resins have outstanding operating capacity and excellent regeneration efficiency. **UXA-2 OH** removes all anions including silica and bi-carbonate but being of weaker basicity, will have a slightly higher silica leakage than a Type I. Type II resins work best on waters having a high percentage of mineral acidity. (chloride, nitrate, sulfate).

#### Uniform Particle Size

96% of all beads in **DI-tech UXA-2 OH** are in the minus 20 to plus 40 mesh range giving a lower pressure drop while maintaining the superior kinetics of standard mesh size products. The uniformity of this resin makes it ideal for packed bed applications and mixed bed separation.

#### Superior Physical Stability

The 93% plus sphericity and toughness of **DI-tech UXA-2 OH** together with a more uniform particle size provide greater resistance to bead breakage while maintaining low pressure drop.

#### Universal Utility

**DI-tech UXA-2 OH** is equally at home in dual bed applications as well as in mixed beds. Its uniformity gives higher capacity response for a given level of regenerant and produces capacities >20 Kgr/cu ft. **UXA-2 OH** can be operated in the chloride form as a DE-alkalizer by double regenerating with NaCl prior to use.

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