

# DI-tech<sup>®</sup> DI Series • for General Purpose: Type I uniform SBA in chloride form

## UXA-1Plus High Purity Uniform Bead Type I SBA Resin

*DI-tech UXA-1Plus is a Type I gel styrenic strong base anion resin supplied in chloride form and ready to use for applications where anion specie reduction is needed. It is made from size-controlled uniform bead gold colored SBA for improved brine efficiency and reduced pressure drop-in service. It is specially processed for low residual organics and has low residual taste and odor.*

### Physical and Chemical Properties

Polymer Structure:	Styrene/ divinylbenzene copolymer
Functional Groups	Type I quaternary.
Ionic Form as Shipped:	Chloride (Cl-)
Physical Form:	Tough, spherical gold-colored beads
Total Capacity	1.3 meq/ml (Cl form) 28.43 Kgr/cu ft
Screen Size Distribution:	
+16 mesh (U.S. Std.)	Less than 1%
-20+40 mesh	98%
-40+50 mesh	Less than 1%
Uniformity Coefficient	1.2 (max)
Moisture Content	(Cl-) 48-54%
pH Range Stability	0-14
Temperature Limits	99°C (210°F) Cl form
Shipping Weight:	43 lbs per cubic ft
Packaging	28.32 liter (1 cu ft) bags

### Chemical Stability

**DI-tech UXA-1Plus** 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. Oxidizers such as chlorine or ozone will break down the cross-linking in the resin over time which leads to swelling, breakage and capacity loss.

### Safety Information

A material safety data sheet is available for DI-tech UXA-1Plus. Copies can be obtained from WECO FILTERS (email sales@wecofilters.com). DI-tech UXA-1Plus 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-1Plus Features and Benefits

#### Very Low Residual Extractable Organic

Special manufacturing conditions ensure very low organics and rapid rinse up in service. This resin is suitable for use in uranium reduction, sulfate, carbonate, fluoride, phosphate, oxy-anion heavy metal reduction. It can be regenerated with sodium chloride for neutral exchange or sodium hydroxide for demineralization applications (when paired with suitable cation)

#### Uniform Particle Size

98% of all beads in **DI-tech UXA-1Plus** 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 improving the efficient use of both salt and regeneration water.

#### Superior Physical Stability

The 95% plus sphericity and toughness of **DI-tech UXA-1Plus** together with a more uniform particle size provide greater resistance to bead breakage while maintaining low pressure drop.

#### Universal Utility

##### DI-tech UXA-1Plus

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 lower silica effluents.

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