

**A-464 SG (OH) ANION RESIN**
**Description:**

A-464 SG (OH) is a Type I porous strong base gel anion resin consisting of a styrene divinylbenzene polymer matrix functionalized with a quaternary amine supplied in the hydroxide form. This resin has the ability to remove anions and weak acids from aqueous solutions, such as carbonic and silicic acids. This resin product is specially processed to provide low TOC leachables and is analyzed kinetically to ensure it is capable of producing 17 megohm mixed bed deionized water.

**Chemical Properties**

Functional Group	Trimethylamine
Ionic Form (as shipped)	Hydroxide
Moisture Content	52 - 59% (Cl form)
Exchange Capacity	1.0 meq/ml minimum (OH form)
Kinetics	≥ 17 megohm (Proprietary Kinetics Test)
Conversion to Hydroxide Form)	90% minimum
Impurities	
Sulfate (SO <sub>4</sub> )	0.5% maximum
Chloride (Cl)	0.5% maximum
Carbonate (CO <sub>3</sub> )	5% maximum
TOC Leachables at 15 Bed Volumes	≤ 10 ppb maximum as a mixed bed with low TOC cation

**Physical Properties**

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	0.5% maximum
Uniformity Coefficient	1.5 maximum
Whole Beads (%)	95 minimum
Shipping Weight	40 lbs. / cu. ft.

**Operating Conditions**

Operating pH Range	0 to 14
Service Flow Rate	
Demineralization	1 - 4 gpm/ft <sup>3</sup>
Polishing	1 to 65 gpm/ft <sup>2</sup> (dependent upon operating conditions and performance expectations)
Regenerant Flow Rate	0.25 - 0.5 gpm/ft <sup>3</sup>
Rinse Flow Rate	0.25 - 0.5 gpm/ft <sup>3</sup> initially, then 1.5 gpm/ft <sup>3</sup>
Rinse Volume	60 - 75 gallons/ft <sup>3</sup>
Maximum Operating Temperature	140°F