



Graver Technologies

## Product Specification

### **GRAVEX<sup>®</sup> GR-4-9 NG ULC** **Nuclear Grade Ultra Low Cl** **Lithium-7/Hydroxide**

Spec No.	GTS-49-NG-ULC
Rev No.	2
Date	July 21, 2017

<b>Properties</b>	<b>Limits</b>
Resin Type	Strongly Acidic Gel Cation Exchange Resin Strongly Basic Type 1 Gel Anion Exchange Resin
Functionality	Sulfonic Acid / Quaternary Ammonium
Matrix	Styrene Divinylbenzene
Cation:Anion Ratio	1:1 Equivalents
Total Exchange Capacity	1.9 meq/mL (Cation) (min) 1.1 meq/mL (Anion) (min)
Ionic Conversion	99% Lithium (min) 97% Hydroxide (min) 0.05% Chloride (max) 0.1% Sulfate (max)
Particle Size	2% plus 16 mesh (~1,190 µm) (max) 5% minus 40 mesh (~420 µm) (max) 0.5% minus 50 mesh (~300 µm) (max)
Friability	Cation - 500 g/bead avg.; Anion - 350 g/bead avg (min) Cation & Anion - 5% < 200 g/bead (max)
Whole Uncracked Bead	95% (min)
Rinseable Organics - Anion	
Post UV Chloride	20 ppb (max)
Post UV Sulfate	50 ppb (max)
Metals (mg/dry kg)	
Aluminum	40 (max)
Calcium	50 (max)
Copper	10 (max)
Iron	50 (max)
Lead	10 (max)
Magnesium	50 (max)
Potassium	50 (max)
Sodium	40 (max)
Zinc	50 (max)
Silica	50 (max)