



Graver Technologies

Product Specification

GRAVEX® GR-4-9 NG
Nuclear Grade
Lithium-7/Hydroxide

Spec No.	GTS-49-NG
Rev No.	7
Date	July 21, 2017

Properties	Limits
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) 3% Carbonate (max) 0.1% Chloride (max) 0.1% Sulfate (max)
Particle Size	5% 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 Bead	98% (min)
Metals (mg/dry kg)	
Aluminum	50 (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)