



Graver Technologies

Product Specification

GRAVEX[®] GR-4-6 NG Nuclear Grade Lithium/Hydroxide

Spec No.	GTS-46-NG
Rev No.	0
Date	October 11, 2020

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	40:60 Volume
Total Exchange Capacity	2 meq/mL (Cation) (min) 1.1 meq/mL (Anion) (min)
Ionic Conversion	99.9% Lithium (min) 95% Hydroxide (min) 5% Carbonate (max) 0.1% Chloride (max) 0.2% Sulfate (max)
Particle Size	600 - 900 μ m mean size 1.6 Uniformity Coefficient (max)
Friability	Cation - 500 g/bead avg.; Anion - 350 g/bead avg Cation & Anion - 95% > 200 g/bead (min)
Whole Uncracked Bead	95% (min)
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	30 (max)
Zinc	50 (max)