



Graver Technologies

Product Specification

GRAVEX® GR-4-6 NG 16
Nuclear Grade
Lithium/Hydroxide

Spec No.	GTS-46-NG-16
Rev No.	0
Date	May 16, 2018

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	2.5 meq/mL (Cation)	(min)
	1.15 meq/mL (Anion)	(min)
Ionic Conversion	99.9% Lithium	(min)
	95% Hydroxide	(min)
	5% Carbonate	(max)
	0.1% Chloride	(max)
	0.1% Sulfate	(max)
Particle Size	2% plus 16 mesh (~1,190 µm)	(max)
	2% 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)
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)
Silica	50	(max)