



Graver Technologies

Product Specification

GRAVEX[®] GR-3-16 NG Nuclear Grade Hydrogen/Hydroxide

Spec No.	GTS-316-NG
Rev No.	4
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	2.4 meq/mL (Cation)	(min)
	1.1 meq/mL (Anion)	(min)
Ionic Conversion	99% Hydrogen	(min)
	95% Hydroxide	(min)
	5% 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 Uncracked Bead	95%	(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	50	(max)
Zinc	50	(max)