



Graver Technologies

Product Specification

GRAVEX® GR-1-9 US NG UPS Nuclear Grade Hydroxide

Spec No.	GTS-19-US-NG
Rev No.	2
Date	July 12, 2017

Properties	Limits
Resin Type	Strongly Basic Type 1 Gel Anion Exchange Resin
Functionality	Quaternary (tri-methyl) Ammonium
Matrix	Styrene Divinylbenzene
Total Exchange Capacity	1.1 meq/mL (min)
Water Retention Capacity	54 - 60%
Ionic Conversion	95% Hydroxide (min) 5% Carbonate (max) 0.1% Chloride (max) 0.1% Sulfate (max)
Particle Size	1.2 Uniformity Coefficient (max) 90% 0.60 - 0.70 mm (min)
Friability	350 g/bead avg (min) 95% > 200 g/bead (min)
Whole Uncracked Beads	95% (min)
Metals (mg/dry kg)	
Aluminum	40 (max)
Calcium	50 (max)
Cobalt	30 (max)
Copper	10 (max)
Iron	50 (max)
Lead	10 (max)
Magnesium	50 (max)
Mercury	20 (max)
Potassium	40 (max)
Sodium	20 (max)
Zinc	50 (max)