



Graver Technologies

Product Specification

GRAVEX[®] GR-1-9 NG ULC Nuclear Grade Ultra Low Cl Hydroxide

Spec No.	GTS-19-NG-ULC
Rev No.	2
Date	July 21, 2017

Properties	Limits
Resin Type	Strongly Basic Type 1 Gel Anion Exchange Resin
Functionality	Quaternary Ammonium
Matrix	Styrene Divinylbenzene
Total Exchange Capacity	1.1 meq/mL (min)
Ionic Conversion	97% Hydroxide (min) 0.05% Chloride (max) 0.1% Sulfate (max)
Particle Size	2% plus 16 mesh (~1,190 µm) (max) 5% minus 40 mesh (~420 µm) (max) 0.5% minus 50 mesh (~300 µm) (max)
Friability	350 g/bead avg (min) 5% < 200 g/bead (max)
Whole Uncracked Bead	95% (min)
Rinseable Organics	
Post UV Chloride	20 ppb (max)
Post UV Sulfate	50 ppb (max)
Extractable Organics	
Post UV Chloride	100 ppb (max)
Post UV Sulfate	100 ppb (max)
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	20 (max)
Zinc	50 (max)