



Graver Technologies

## Product Specification

### GRAVEX® GR-3-16 US CG 2:1 Condensate Grade Hydrogen/Hydroxide

Spec No.	GTS-316-US-CG 2:1
Rev No.	0
Date	February 19, 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	2:1 Volume	
Total Exchange Capacity	2.4 meq/mL (Cation) 1.1 meq/mL (Anion)	(min) (min)
Water Retention Capacity	Cation 37-45% ; Anion 55-65%	
Ionic Conversion	99% Hydrogen 95% Hydroxide 5% Carbonate 0.5% Chloride	(min) (min) (max) (max)
Particle Size	1.2 Uniformity Coefficient 2% > 1180 µm 0.5% < 300 µm Cation - 550 ± 50 µm mean diameter Anion - 600 ± 50 µm mean diameter	(max) (max) (max)
Friability	Cation - 500 g/bead avg.; Anion - 350 g/bead avg Cation & Anion - 95% > 200 g/bead	(min) (min)
Whole Uncracked Bead	95%	(min)
Impurities (mg/dry kg)		
Aluminum	40	(max)
Calcium	10	(max)
Cobalt	5	(max)
Copper	5	(max)
Iron	50	(max)
Lead	10	(max)
Magnesium	10	(max)
Mercury	10	(max)
Potassium	20	(max)
Sodium	40	(max)
Post UV Rinseable		
Chloride, µg/L resin	Cation - 50 ; Anion - 50	(max)
Sulfate, µg/L resin	Cation - 100 ; Anion - 50	(max)
Soak TOC, mg/L resin		
Cation	5	(max)
Anion	30	(max)