



Graver Technologies

## Product Specification

### GRAVEX<sup>®</sup> GR-2-16 US CG UPS Condensate Grade Hydrogen

Spec No.	GTS-216-US-CG
Rev No.	4
Date	October 30, 2020

#### Properties

Resin Type  
Functionality  
Matrix  
Physical Appearance  
Total Exchange Capacity, (eq/L)  
Water Retention Capacity, (%)  
Ionic Conversion, (%)  
Particle Size  
    Mean Particle Diameter, ( $\mu\text{m}$ )  
    Uniformity Coefficient  
         $> 850 \mu\text{m}$ , (%)  
         $< 500 \mu\text{m}$ , (%)  
Friability  
    Average g/bead  
    %  $>200$  g/bead  
Whole Uncracked Beads, (%)  
Impurities, (mg/dry kg)  
    Aluminum  
    Calcium  
    Copper  
    Iron  
    Lead  
    Magnesium  
    Potassium  
    Sodium

#### Limits

Strongly Acidic Gel Cation Exchange Resin  
Sulfonic Acid  
Styrene Divinylbenzene  
Amber to dark translucent spherical beads  
 $\geq 2.4$   
35 - 43  
 $\geq 99\%$  Hydrogen  
650 +/- 50  $\mu\text{m}$   
 $\leq 1.1$   
 $\leq 3.0$   
 $\leq 1.0$   
 $\geq 1,000$   
 $\geq 95$   
 $\geq 95$   
 $\leq 50$   
 $\leq 50$   
 $\leq 10$   
 $\leq 50$   
 $\leq 10$   
 $\leq 50$   
 $\leq 50$   
 $\leq 25$

#### Typical Properties

Swelling Na to H, % ~ 4  
Particle Density, (g/mL) ~ 1.28  
Shipping Weight, (g/L) ~ 800 - 840  
Operating Temperature °C, (max) 150 ; Recommend ~ 135 max for best operation