



Graver Technologies

Product Specification

GRAVEX® GR-2-0 US CGF UPS Condensate Grade Hydrogen

Spec No.	GTS-20-US-CGF
Rev No.	2
Date	June 2, 2021

Properties

Resin Type
 Functionality
 Matrix
 Physical Appearance
 Total Exchange Capacity, (eq/L)
 Water Retention Capacity, (%)
 Ionic Conversion, (%)
 Particle Size
 Particle Diameter, (µm)
 Uniformity Coefficient
 > 850 µm, (%)
 < 300 µm, (%)
 Friability
 Average g/bead
 % >200 g/bead
 Whole Uncracked Beads, (%)
 Impurities, (mg/dry kg)
 Aluminum
 Copper
 Iron
 Lead
 Sodium

Limits

Strongly Acidic Gel Cation Exchange Resin
 Sulfonic Acid
 Styrene Divinylbenzene
 Amber to dark translucent spherical beads
 ≥ 2.0
 45 - 51
 ≥ 99% Hydrogen
 650 +/- 50 µm
 ≤ 1.1
 ≤ 5.0
 ≤ 0.5
 ≥ 500
 ≥ 95
 ≥ 95
 ≤ 50
 ≤ 10
 ≤ 50
 ≤ 10
 ≤ 50

Typical Properties

Approx. Swelling Na to H, % ~ 8
 Particle Density, (g/mL) ~ 1.22
 Shipping Weight, (g/L) ~ 800
 Operating Temperature °C (°F) ≤ 150 (302)
 pH Range 0-14
 Bed Depth, mm (ft) ≥ 800 (2.6)
 Service Rate, m/h (gpm/ft²) 5-60 (2-24)
 Regenerant, % H₂SO₄ ; HCl 2-10 ; 4-8
 Regenerant Quantity, approx. min. g/L (lb/ft³) H₂SO₄ 120 (~7.5) ; HCl 100 (~6.5)
 Regeneration Rate, m/h (gpm/ft²) 2-10 (0.8-4)
 Total Rinse Requirement, BV 2-10