



Graver Technologies
Product Specification

GRAVEX[®] GR-1-1 US DM
UPS Demineralizer Grade
Chloride

Spec No.	GTS-11-US-DM-CI
Rev No.	3
Date	July 7, 2021

Properties

Physical Appearance
Resin Type
Functionality
Matrix
Total Exchange Capacity, eq/L
Water Retention Capacity, %
Particle Size
 Particle Diameter, μm
 Uniformity Coefficient
 > 850 μm , (%)
 < 300 μm , (%)
Whole Bead, %

Limits

White to light yellow translucent spherical beads
Strongly basic type 1 gel anion exchange resin
Quaternary (tri-methyl) ammonium
Styrene divinylbenzene
 ≥ 1.3
47 - 58
580 \pm 50 μm
 ≤ 1.1
 ≤ 1.0
 ≤ 0.3
 ≥ 95

Typical Properties

Approx. Swelling, (Cl⁻ to OH⁻), % ~ 20
Particle Density, g/mL ~1.08
Bulk Density, (g/L) ~690
Operating Temperature, °C (°F) ≤ 100 (212) Cl form ; ≤ 60 (140) OH form
pH Range 0-14
Bed Depth, mm (ft) ≥ 800 (2.6)
Service Rate, m/h (gpm/ft²) 5-60 (2-24)
Regenerant, % NaOH 2-6
Regenerant Quantity, approx. min. g/L (lb/ft³) 100 (~6.5)
Regeneration Rate, m/h (gpm/ft²) 2-10 (0.8-4)
Total Rinse Requirement, BV 2-10