



Graver Technologies

Product Specification

GRAVEX® GR-2-0 US DM UPS Demineralizer Grade Sodium

Spec No.	GTS-20-US-DM-Na
Rev No.	1
Date	October 22, 2020

Properties

Resin Type
Functionality
Matrix
Physical Appearance
Ionic Form
Total Exchange Capacity, (meq/mL)
Water Retention Capacity, (%)
Particle Size
 Particle Diameter, (μm)
 $\geq 850 \mu\text{m}$, (%)
 $< 300 \mu\text{m}$, (%)
 Uniformity Coefficient
Whole Bead, %

Limits

Strongly Acidic Cation Exchange Resin
Sulfonic Acid
Styrene Divinylbenzene, Gel
Dark brown translucent spherical beads
Hydrogen
 ≥ 2.2
38 - 45
 625 ± 50
 ≤ 3.0
 ≤ 1.0
 ≤ 1.1
 ≥ 95

Typical Properties

Swelling, % (Na^+ to H^+) ~ 8
Particle Density 1.3 g/mL
Bulk Density, g/L 780-880 (~52 lbs/ft³)
Operating Temperature 130°C (265°F)
pH Range 0 - 14
Bed Depth, min 800 mm (2.6 ft)
Service Rate 5-60 m/h (2-24 gpm/ft²)
Regenerant 2-10% H_2SO_4 ; 4-8% HCl
Regeneration Rate 2-10 m/h (0.8-4 gpm/ft²)
Total Rinse Requirement 2-10 BV