



Graver Technologies

Product Specification

GRAVEX[®] GR-2-1 US DM UPS Demineralizer Grade Sodium

Spec No.	GTS-21-US-DM
Rev No.	0
Date	August 25, 2017

Properties

Limits

Resin Type	Strongly Acidic Gel Cation Exchange Resin	
Functionality	Sulfonic Acid	
Matrix	Styrene Divinylbenzene	
Total Exchange Capacity	2.0 meq/mL	(min)
Water Retention Capacity	42 - 48%	
Ionic Conversion	99% Hydrogen	(min)
Particle Size	1.1 Uniformity Coefficient 585 ± 50 µm mean	(max)

Typical Properties

Swelling (Na ⁺ to H ⁺)	8%
Particle Density	1.28 g/mL
Shipping Weight	800 g/mL (50 lbs/ft ³)
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/ft ²)
Regenerant	2-10% H ₂ SO ₄ ; 4-8% HCl
Regeneration Rate	2-10 m/h (0.8-4 gpm/ft ²)
Total Rinse Requirement	2-10 BV