



Graver Technologies

Product Specification

GRAVEX[®] GR-1-0 US DM UPS Demineralizer Grade Chloride

Spec No.	GTS-10-US-DM-Cl
Rev No.	0
Date	July 30, 2018

Properties

Limits

Resin Type	Strongly Basic Type 1 Gel Anion Exchange Resin	
Functionality	Quaternary (tri-methyl) Ammonium	
Matrix	Styrene Divinylbenzene	
Total Exchange Capacity	1.3 meq/mL	(min)
Water Retention Capacity	45 - 52%	
Particle Size	1.1 Uniformity Coefficient 590 ± 50 µm mean	(max)
Friability	350 g/bead, avg 95% >200 g/bead	(min) (min)
Whole Uncracked Beads	95%	(min)

Typical Properties

Swelling (Cl ⁻ to OH ⁻)	~23%
Particle Density	1.07 g/mL
Shipping Weight	690 g/mL (43 lbs/ft ³)
Operating Temperature	80°C (160°F) max
pH Range	0-14
Bed Depth, min	800 mm (2.6 ft)
Service Rate	5-60 m/h (2-24 gpm/ft ²)
Regenerant	2-8% NaOH
Regeneration Rate	2-10 m/h (0.8-4 gpm/ft ²)
Total Rinse Requirement	2-10 BV