



Graver Technologies

## Product Specification

### GRAVEX<sup>®</sup> GR-1-0 US DM UPS Demineralizer Grade Hydroxide

Spec No.	GTS-10-US-DM
Rev No.	0
Date	August 25, 2017

#### Properties

#### Limits

Resin Type	Strongly Basic Type 1 Gel Anion Exchange Resin	
Functionality	Quaternary (tri-methyl) Ammonium	
Matrix	Styrene Divinylbenzene	
Total Exchange Capacity	1.0 meq/mL	(min)
Water Retention Capacity	55 - 65%	
Ionic Conversion	95% Hydroxide	(min)
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 <sup>-</sup> to OH <sup>-</sup> )	23%
Particle Density	1.07 g/mL
Shipping Weight	655-660 g/mL (41 lbs/ft <sup>3</sup> )
Operating Temperature	60°C (140°F)
pH Range	0-14
Bed Depth, min	800 mm (2.6 ft)
Service Rate	5-60 m/h (2-24 gpm/ft <sup>2</sup> )
Regenerant	2-8% NaOH
Regeneration Rate	2-10 m/h (0.8-4 gpm/ft <sup>2</sup> )
Total Rinse Requirement	2-10 BV