



Graver Technologies

Quality Department

**GRAVEX®  
GR 3-16 N  
HYDROGEN/HYDROXIDE  
FORM MIXED BED**

SPEC NO	GTS-316-N
REV NO	1
DATE	July 27, 2006
QA APPROVAL	<i>Keith Platoff</i>

**PROPERTIES**

**SPECIFICATIONS**

Resin Type	Strongly Acidic Gel Cation Exchange Resin Strongly Basic Type 1Gel Anion Exchange Resin								
Functionality	Sulfonic Acid Quaternary Ammonium								
Matrix	Styrene-Divinylbenzene								
Cation : Anion Ratio	1:1 Equivalentents								
Total Exchange Capacity	Cation 2.4 meq/mL (min) Anion 1.2 meq/mL (min)								
Moisture Content	Cation 36 - 42% Anion 53 - 59%								
Percent of Sites	99% Hydrogen (min) 97% Hydroxide (min) 0.1% Chloride (max)								
Particle Size	5 % plus 16 mesh (max) 5% minus 40 mesh (max) 0.2% minus 50 mesh (max)								
Friability	350 g/bead average (min) 5% <200g/bead (max)								
Metals (mg/dry kg)	(max)								
<u>Na</u>	<u>Fe</u>	<u>Cu</u>	<u>Pb</u>	<u>Al</u>	<u>Ca</u>	<u>Mg</u>	<u>K</u>	<u>Zn</u>	<u>SiO<sub>2</sub></u>
50	50	10	10	50	50	50	50	50	50
Water Extractables	0.1%								(max)
Shipping Weight	44 lbs/ft <sup>3</sup> (704 g/L)								