



Graver Technologies

Quality Department

**GRAVEX®
GR 3-9 N
HYDROGEN/HYDROXIDE**

SPEC NO	GTS-39-N
REV NO	2
DATE	July 20, 2007

PROPERTIES

Resin Type

Functionality

Matrix

Cation : Anion Ratio

Total Exchange Capacity

Percent of Sites

Particle Size

Friability

Metals (mg/dry kg)

<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>SiO₂</u>
50	50	10	10	50	50	50	50	50	50
Water Extractables			0.1%						
Shipping Weight			43 lbs/ft ³ (689 g/L)						

SPECIFICATIONS

Strongly Acidic Gel Cation Exchange Resin

Strongly Basic Type 1Gel Anion Exchange Resin

Sulfonic Acid

Quaternary Ammonium

Styrene-Divinylbenzene

1:1 Equivalent

Cation 2 meq/mL (min)

Anion 1.2 meq/mL (min)

99% Hydrogen (min)

97% Hydroxide (min)

0.1% Chloride (max)

5 % plus 16 mesh (max)

5% minus 40 mesh (max)

0.5% minus 50 mesh (max)

350 g/bead average (min)

5% <200g/bead (max)

(max)