



Graver Technologies

Quality Department

GRAVEX[®]
GR 3-22 M
MORPHOLINIUM/HYDROXIDE
FORMS

SPEC NO	GTS-322-M-S
REV NO	0
DATE	September 4, 1996
QA APPROVAL	<i>Keith Platoff</i>

PROPERTIES

Resin Types

Functionality

Matrix

Cation : Anion Ratio

Total Exchange Capacity

Percent of Sites

Particle Size

Metals (mg/dry kg)

Water Extractables (mg/L)

Shipping Weight

SPECIFICATIONS

Strongly Acidic Macroporous Cation
Exchange Resin
Strongly Basic Gel Anion Exchange
Resin

Sulfonic Acid

Quaternary Ammonium

Styrene-Divinylbenzene

1:2 Equivalents

Cation 1.6 meq/mL (H⁺ Form) (min)

Anion 1.1 meq/mL (min)

90% Morpholinium (min)

95% Hydroxide (min)

1% Chloride (max)

5 % plus 16 mesh (max)

5% minus 40 mesh (max)

0.5% minus 50 mesh (max)

20 Sodium (max)

50 Iron (max)

10 Copper (max)

Cation 400 (max)

Anion 400 (max)

43 lbs/ft³ (690 g/L)