



Graver Technologies

Product Specification

GRAVEX® GR-3-16 US NG
Nuclear Grade
Hydrogen/Hydroxide

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|----------|---------------|
| Spec No. | GTS-316-US-NG |
| Rev No. | 0 |
| Date | July 21, 2017 |

| Properties | Limits |
|-------------------------|---|
| Resin Type | Strongly Acidic Gel Cation Exchange Resin Strongly Basic Type 1 Gel Anion Exchange Resin |
| Functionality | Sulfonic Acid / Quaternary Ammonium |
| Matrix | Styrene Divinylbenzene |
| Cation:Anion Ratio | 1:1 Equivalents |
| Total Exchange Capacity | 2.4 meq/mL (Cation) (min) 1.1 meq/mL (Anion) (min) |
| Ionic Conversion | 99% Hydrogen (min) 97% Hydroxide (min) 0.1% Chloride (max) 0.1% Sulfate (max) |
| Particle Size | 1.2 Uniformity Coefficient (max) 2% plus 16 mesh (~1,190 µm) (max) 0.2% minus 50 mesh (~300 µm) (max) |
| Friability | Cation - 500 g/bead avg.; Anion - 350 g/bead avg (min) Cation & Anion - 5% < 200 g/bead (max) |
| Whole Uncracked Bead | 95% (min) |
| Metals (mg/dry kg) | |
| Aluminum | 40 (max) |
| Calcium | 50 (max) |
| Copper | 10 (max) |
| Iron | 50 (max) |
| Lead | 10 (max) |
| Magnesium | 50 (max) |
| Potassium | 50 (max) |
| Sodium | 40 (max) |
| Zinc | 50 (max) |