



Graver Technologies

Product Specification

GRAVEX[®] GR-7-17 NG Nuclear Grade ⁷Lithium

Spec No.	GTS-717-NG- ⁷ Li
Rev No.	4
Date	February 17, 2021

Properties

Resin Type
Functionality
Matrix
Physical Appearance
Total Exchange Capacity, eq/L
Water Retention Capacity, %
Ionic Conversion, %
Particle Size
 > 1,180 μm (~16 mesh), %
 < 420 μm (~40 mesh), %
 < 300 μm (~50 mesh), %
Friability
 Average g/bead
 % >200 g/bead
Whole Uncracked Beads, %
Impurities, mg/dry kg
 Aluminum
 Calcium
 Cobalt
 Copper
 Iron
 Lead
 Magnesium
 Mercury
 Potassium
 Sodium

Limits

Strongly Acidic Macroporous Cation Exchange Resin
Sulfonic Acid
Styrene Divinylbenzene
Amber to dark brown translucent spherical beads
 ≥ 2.1 (H form)
43 - 49
 $\geq 99\%$ ⁷Li⁺
 ≤ 2.0
 ≤ 2.0
 ≤ 0.2
 ≥ 500
 ≥ 95
 ≥ 95
 ≤ 10
 ≤ 10
 ≤ 5
 ≤ 5
 ≤ 30
 ≤ 10
 ≤ 10
 ≤ 20
 ≤ 20
 ≤ 20

Typical Properties

Particle Density, g/mL ~ 1.24
Shipping Weight, g/L ~ 760 - 800