

## USF NR-6 NUCLEAR GRADE MIXED BED RESIN

### Description:

USF NR-6 is a 1:1 chemical equivalent of USF NR-1 and NR-2. USF NR-1 is a strong acid cation exchange resin that is manufactured from polystyrene and is cross-linked with divinylbenzene. This resin is a gel cation with an amber to dark bead appearance. USF NR-2 is a strong base, Type I, gel anion resin consisting of a styrene divinylbenzene matrix with an amber color.

### Chemical Properties

Ionic Form (as shipped)	Hydrogen / Hydroxide mix
Moisture Content	55% max. (H form cation) / 48% max. (Cl form anion)
Exchange Capacity	1.8 meq / m l min. (H form cation) / 1.2 meq / ml min. (OH form anion)
Kinetics	> 15 megohm

### Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	0.5% maximum
Effective Size (Approximate)	0.40 - 0.60 mm
Whole Beads (%)	90 minimum
Shipping Weight	45 lbs. / cu. ft.

### Operating Conditions

Operating pH Range	1 to 14
Service Flow Rate	1 to 4 gpm / cu.ft.
Regenerant Flow Rate	0.5 gpm / cu.ft.
Rinse Flow Rate	0.5 to 2.0 gpm / cu.ft.
Rinse Volume	50 gallons / cu.ft. (approximate)
Maximum Operating Temperature	140°F