

USF NR-30 MEG MIXED BED RESIN

Description:

USF NR-30 MEG is a 1:1 chemical equivalent of USF C-361 MEG (H) and USF A-464 MEG (OH). USF C-361 MEG (H) is a 10% cross-linked gel strong acid cation exchange resin. USF A-464 MEG (OH) is a Type I porous strong base gel anion resin. USF C-361 MEG (H) and USF A-464 MEG (OH) are specially processed to provide low TOC leachables. The resins are checked kinetically to produce 18+ megohm resistivity and provide excellent mixed bed separation.

Chemical Properties

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| Functional Groups | Sulfonic Acid, Trimethylamine |
| Ionic Form (as shipped) | Hydrogen / Hydroxide mix |
| Moisture Content | 51% max. (H form cation) / 59% max. (Cl form anion) |
| Exchange Capacity | 2.0 meq / ml min. (H form cation) / 1.0 meq / ml min. (OH form anion) |
| Conversion | |
| Cation | 99% minimum (H form) |
| Anion | 94% minimum (OH form) |
| Impurities | |
| TOC (15 bed volumes of rinse) | ≤10 ppb maximum |
| Metal (15 bed volumes of rinse) | Low ppt levels (feed water dependent) |
| Kinetics | 18 megohm (Siemens Kinetics Test) |

Physical Properties

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|------------------------------|---|
| Particle Screen Sizing | |
| + 16 Mesh | 5.0% maximum |
| - 50 Mesh | 0.5% maximum |
| Effective Size (Approximate) | 0.40 - 0.60 mm |
| Whole Beads (%) | 95 minimum |
| Shipping Weight | 44 lbs. / cu. ft. |
| Bead Strength (friability) | 350 gm / bead (minimum) 90% minimum > 200 g/bead |

Operating Conditions

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|-------------------------------|----------------------|
| Operating pH Range | 1 to 14 |
| Service Flow Rate | 1 to 4 gpm / cu. ft. |
| Maximum Operating Temperature | 140°F |