

NR-30 MEG PPQ MIXED BED RESIN

Description:

NR-30 MEG PPQ is a 1:1 chemical equivalent of C-361 MEG PPQ (H) and A-464 MEG PPQ (OH). These resins are produced using selected starting resins meeting Evoqua specifications and are processed to have very low TOC leachables, boron and dynamic sodium levels for use in the semiconductor market along with a very quick rinse up.

Chemical Properties

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 above the influent
Kinetics	18 megohm (Evoqua Kinetics Test)

Physical Properties

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/ft ³

Operating Conditions

Operating pH Range	1 to 14
Service Flow Rate	
Demineralization	1 to 4 gpm/ft ³
Maximum Operating Temperature	140 °F

Certificate of Analysis-Components

	Certificate of Analysis–Metals Extraction		Projected Water Quality	
	Cation Resin Extraction analysis	Anion Resin Extraction analysis	Mixed Resin ⁽¹⁾	Mixed Resin obtainable ⁽²⁾
	µg / g of resin	µg / g of resin	ppt	ppt
Al	≤ 0.5	≤ 0.5	<5	1
B	---	---	<50	5-25
Ca	≤ 7.0	≤ 7.0	<5	0.5, 1
Cu	≤ 0.5	≤ 0.5	<2	0.5, 1
Cr	---	---	<2	0.5, 1
Fe	≤ 10.0	≤ 1.0	<2	0.5, 1
Mg	≤ 1.0	≤ 1.0	<2	1
Na	≤ 7.0	≤ 7.0	<5	0.5, 1
Ni	---	---	<2	0.5, 1
Pb	---	---	<5	1
Ti	---	---	<2	0.5, 1
Zn	≤ 0.5	≤ 0.5	<2	0.5, 1

(1) – Based on dissolved metals on inlet to Mixed Bed and dependent on equipment materials of construction; Metals are essentially ASTM E-1.2 excluding boron

(2) – Contact Evoqua for review of inlet levels, resin handling, analysis methods and equipment materials of construction: Metals are essentially ITRS Roadmap 2005 standards excluding boron and limited on analytical procedures / detection levels.