



## Ion Exchange Resin For Polisher

- High capacity
- High stability
- Regenerable mixed bed





## DWEP Mixed Bed Ion Exchange Resin For Ultrapure Water Production

H.N.K DWEP is the electronic grade ion exchange resin which can be used as the polisher or mixed bed in the ultra-pure water system.



- High capacity
- Color and particle size difference
- Regenerable mixed bed

Properties	Cation H <sup>+</sup>	Anion OH <sup>-</sup>
Matrix	Styrene-DVB, gel	
Functional Groups	Sulfonic Acid	Quaternary Ammonium
Total Exchange Capacity	≥1.9 eq/L	≥1.0 eq/L
Moisture Holding Capacity	46~51%	55~65%
Mean Particle Size	650±50 μm	590±50 μm
Shipping Weight	689 g/L	

### Suggested Operating Conditions

Maximum Operating Temperature	60°C
Minimum Bed Depth	800 mm
Service Flow Rate	40 BV/hr

### Regenerant

Cation 1~8% H <sub>2</sub> SO <sub>4</sub> or 4~8% HCl	Anion 4~8% NaOH
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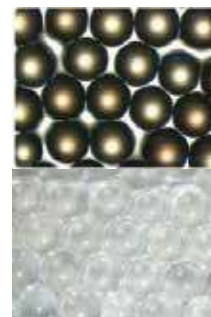
### Characteristics

1. It could have the better separation and regeneration results because of the difference of color and particle size.
2. Higher exchange capacity and superior volumetric ratio.  
(H<sup>+</sup> Form ≥ 1.9 eq/L、OH<sup>-</sup> Form ≥ 1.0 eq/L )
3. It will reduce the resin cluing.
4. The boron, silica ions can be effectively removed by the resin.
5. The resistivity and TOC expectation values can be approached by high efficiency rinsing.

## RHSP Semi-Conductor Grade Final Polishing Mixed Bed Resin

H.N.K RHSP is the semiconductor grade of polisher resin which is specially designed for the ultra-pure water quality requirement more than 18MΩ-cm. It is suitable for opto-electronics industries, assembly and testing industries, solar energy industries, and LED industries etc...

- High capacity
- Chemically balanced mixture (eq/eq)
- No clumping



Properties	Cation H <sup>+</sup>	Anion OH <sup>-</sup>
Matrix	Polystyrene Divinylbenzene Copolymer	
Functional Groups	Sulfonic Acid	Quaternary Ammonium
Physical Form	Dark Amber Translucent Beads	Yellow Translucent Beads
Total Exchange Capacity	≥ 2.0 eq/L	≥ 1.1 eq/L
Moisture Holding Capacity	41~51%	54~60%
Mean Particle Size	600~700 μm	580~680 μm
Shipping Weight	710 g/L	

### Suggested Operating Conditions

Feed Water Temperature	15~25°C	(60~77°F)
Maximum Operating Temperature	60°C	(140°F)
Minimum Bed Depth	900mm	(3 feet)
Service Flow Rate	30 BV/hr~50 BV/hr	

### Characteristics

1. Excellent Physical and Chemical Stability
2. Higher Exchange Capacity and Exchange Reaction Rate  
(H<sup>+</sup> Form ≥ 2.0 eq/L、OH<sup>-</sup> Form ≥ 1.1 eq/L )
3. Lower TOC and Silica Leakage
4. Higher Service Flow Rate (50 BV/hr)
5. Gel Type Uniform Particle Size



## H.N.K Factory Overview

With the cutting-edge technology and techniques from Japan, H.N.K resin is well-known for its superb stability as well as high capacity. A stricter standard on QC implemented by H.N.K is another plus that ensures the quality of its products.



Please contact for more information