



江苏苏青水处理工程集团有限公司

Jiangsu Suqing Water Treatment Engineering Group Co., Ltd.

苏青半导体水处理 2B3T 用离子交换树脂

Suqing Semiconductor Water Treatment 2B3T Ion Exchange Resin

2B3T 是一个包含多种树脂的复合离子交换系统或单元，其核心应用在于对水质进行高效、经济且彻底的去离子处理。该系统通过将不同特性的离子交换树脂组合在一个容器或串联的流程中，发挥协同效应。

2B3T" refers to a composite ion exchange system or unit incorporating multiple resin types. Its core application is to perform highly efficient, economical, and thorough deionization of water. This system leverages the synergistic effects of combining ion exchange resins with different characteristics within one vessel or in a series.

▲ 树脂的物化性能指标(Physical and Chemical Properties)

1. 苏青 SQ-680EG 强酸阳离子交换树脂

Suqing SQ-680EG Strong Acid Cation Exchange Resin

项目		SQ-680EG	
总交换容量(Total Capacity)	mmol/ml $\geq$	2.0	
含水量(Water Retention)	%	43-48	
湿视密度(Density)	g/ml	0.78-0.85	
湿真密度(Bulk Density)	g/ml	1.25-1.30	
粒度范围(Particle Size)	$\geq 95\%$	0.4-1.25 mm	0.55-0.75 mm
有效粒径(Effective Size)	mm	0.5-0.7	0.6-0.7
均一系数(Uniformity Coefficient)	$\leq$	1.6	1.2
转型膨胀率(Swelling, Na $\rightarrow$ H)	% $\leq$	10	
磨后圆球率(Whole Beads after Attrition) % $\geq$		95	
工作交换容量(Working Capacity)	mmol/L $\geq$	900	
出厂型态(Shipping Ion Form)		Na	

2. 苏青 SQD-813EG 弱酸阳离子树脂

Suqing SQD-813EG Weak Acid Cation Exchange Resin

项目		SQD-813EG	
总交换容量(Total Capacity)	mmol/ml $\geq$	4.3	
含水量(Water Retention)	%	45-52	
湿视密度(Density)	g/ml	0.72-0.80	
湿真密度(Bulk Density)	g/ml	1.14-1.20	
粒度范围(Particle Size)	$\geq 95\%$	0.45-1.25 mm	0.5-1.0 mm
有效粒径(Effective Size)	mm	0.5-0.7	0.055-0.65
均一系数(Uniformity Coefficient)	$\leq$	1.6	1.35
转型膨胀率(Swelling, H $\rightarrow$ Na)	% $\leq$	60	
渗磨圆球率(Osmotic Whole Beads after Attrition) % $\geq$		95	
工作交换容量(Working Capacity)	mmol/L $\geq$	2000	
出厂型态(Shipping Ion Form)		H	

3. 苏青 SQ-740EG 强碱阴离子交换树脂

Suqing SQ-740EG Strong Base Anion Exchange Resin

项目		SQ-740EG	
总交换容量(Total Capacity)	mmol/ml≥	1.2	
含水量(Water Retention)	%	50-60	
湿视密度(Density)	g/ml	0.66-0.71	
湿真密度(Bulk Density)	g/ml	1.06-1.10	
粒度范围(Particle Size)	≥95%	0.4-1.25 mm	0.5-0.7 mm
有效粒径(Effective Size)	mm	0.5-0.7	0.55-0.65
均一系数(Uniformity Coefficient)	≤	1.6	1.2
转型膨胀率(Swelling, Cl→OH)	%≤	25	
磨后圆球率(Whole Beads after Attrition)	%≥	95	
工作交换容量(Working Capacity)	mmol/L≥	450	
出厂型态(Shipping Ion Form)		Cl	

4. 苏青 SQD-93EG 弱碱阴离子交换树脂

Suqing SQD-93EG Weak Base Anion Exchange Resin

项目		SQD-93EG	
总交换容量(Total Capacity)	mmol/ml≥	1.4	
含水量(Water Retention)	%	50-60	
湿视密度(Density)	g/ml	0.65-0.72	
湿真密度(Bulk Density)	g/ml	1.03-1.09	
粒度范围(Particle Size)	≥95%	0.45-1.25 mm	0.5-1.0 mm
有效粒径(Effective Size)	mm	0.5-0.7	0.55-0.65
均一系数(Uniformity Coefficient)	≤	1.6	1.35
转型膨胀率(Swelling, 游离胺→Cl)	%≤	18	
渗磨圆球率(Osmotic Whole Beads after Attrition)	%≥	90	
工作交换容量(Working Capacity)	mmol/L≥	800	
出厂型态(Shipping Ion Form)		游离胺(free amine)	

5. 苏青 QL-2HP 高纯惰性树脂

Suqing QL-2HP High Purity Inert Resin

项目		QL-2HP
基质(Matrix)		聚丙烯(PP)
湿视密度(Density)	g/ml	0.55-0.60
湿真密度(Bulk Density)	g/ml	0.9-0.98
粒度范围(Particle Size)	%	(1.3X1.4mm)≥95

▲ 包装(Packing)

50 升/桶装 (50L/Drum)

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Jiangsu Suqing Water Treatment Engineering Group Co., Ltd.

苏青半导体水处理抛光树脂 SQ-8050UP

Suqing Semiconductor Grade Water Treatment Polishing Resin SQ-8050UP

苏青 SQ-8050UP 是一种半导体级高纯超纯水用离子交换树脂，由再生均匀的阳离子交换树脂和阴离子交换树脂以等比混合而成。不仅可以管理采出水的纯度，而且可以管理总有机碳（TOC）。主要用于生产高纯度超纯水，应用于 LCD、OLED 和 半导体。

Suqing SQ-8050UP is an ion exchange resin for semiconductor grade high-purity ultrapure water, which is produced by mixing regenerated uniform cation and anion exchange resins in equal capacity ratio. It is possible to manage not only the purity of the produced water but also the Total Organic Carbon (TOC). Mainly used to produce high-purity ultrapure water in fields such as LCD, OLED and semiconductors.

▲ 树脂的物化性能指标(Physical and Chemical Properties)

项目	SQ-8050UP	
	阳树脂 Cation	阴树脂 Anion
树脂骨架(Matrix Structure)	Styrene-DVB,Gel	Styrene-DVB,Gel
总交换容量(Total Capacity) mmol/ml≥	1.9	1.0
出厂型态(Shipping Ion Form)	H ⁺	OH ⁻
粒度范围(Particle Size) mm	0.62±0.05	0.62±0.05
均一系数(Uniformity Coefficient)	1.10↓	1.10↓
离子转型率(Ionic Conversion) %	H ⁺ 99.0↑	OH ⁻ 95.0↑ Cl ⁻ 1.0↓
进水要求(Inlet condition)	超纯水, 电阻率>17.5 MΩ·cm, TOC<2ppb,SV30 Ultrapure water, Resistivity>17.5 MΩ·cm, TOC<2ppb, SV30	
出水水质(Outlet condition)	保证电阻率>18.2·cm↑(30 分钟) △TOC<1ppb(180 分钟) Guaranteed Resistivity>18.2 MΩ·cm↑(in 30min.) △TOC<1ppb(in 180min.)	

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Jiangsu Suqing Water Treatment Engineering Group Co., Ltd.

苏青半导体水处理前置混床阴阳离子交换树脂

Suqing Pretreatment Mixed-Bed Ion Exchange Resin for Semiconductor

在半导体超纯水（UPW）制备系统中，前置混床是指位于反渗透（RO）之后、电去离子（EDI）之前的关键去离子单元。其内部装填的阴阳离子交换树脂承担着主脱盐和保护下游精密设备的双重核心任务。苏青前置混床由强酸阳离子和强碱阴离子树脂的混合，具有良好的化学稳定性、高交换容量和优异的动力学性能，以满足半导体水处理系统连续、稳定、高效运行的需求。

In a semiconductor Ultrapure Water (UPW) production system, the "pretreatment mixed bed" is a critical deionization unit positioned after Reverse Osmosis (RO) and before Electrodeionization (EDI). The cation and anion exchange resins loaded within it serve the dual core functions of primary demineralization and protecting downstream sensitive equipment. Suqing Pretreatment mixed-bed is mixture of strong acid cation and strong anion exchange resins. They possess good chemical stability, high exchange capacity, and excellent kinetic performance to meet the demands of continuous, stable, and efficient operation in semiconductor water treatment systems.

▲ 树脂的物化性能指标(Physical and Chemical Properties)

项目		混床树脂 Pretreatment Mixed-Bed	
混床树脂组成		SQ-680EG MB	SQ-740EG MB
总交换容量(Total Capacity)	mmol/ml≥	2.0	1.2
含水量(Water Retention)	%	43-48	50-60
湿视密度(Density)	g/ml	0.78-0.85	0.66-0.71
湿真密度(Bulk Density)	g/ml	1.25-1.30	1.06-1.10
粒度范围(Particle Size)	%	(0.55-0.75mm)≥95	(0.5-0.7mm)≥95
有效粒径(Effective Size)	mm	0.6-0.7	0.55-0.65
均一系数(Uniformity Coefficient)	≤	1.2	1.2
转型膨胀率(Swelling, Na→H)	%≤	10	25
磨后圆球率(Whole Beads after Attrition) %≥		95	95
出厂型态(Shipping Ion Form)		Na	Cl

▲ 包装(Packing)

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