

SEPLITE® Monojet™ SA8500U

Uniform particle size, Gel type, SBA resin for single or mixed bed demineralization for Ultrapure Water applications

• Descriptions

SEPLITE® Monojet™ SA8500U Ion Exchange Resin is a high-purity, high-capacity resin with uniform particle size designed specifically for the primary, second loop or polishing stage in the ultrapure water preparation. This resin could be available in both OH⁻ form and Cl⁻ form, the ionic conversion rate of OH⁻ form is up to 95%.

The resin is normally paired with SEPLITE® Monojet™ SC7700U in H⁺ form in mixed bed system.

• Physical and Chemical Characteristics

Matrix Structure	Gel, Styrene-divinylbenzene	
Functional group	Quaternary ammonium	
Shipping form	OH ⁻	
Physical Appearance	White to yellow translucent spherical beads	
Particle size (mm)	0.59±0.05mm	
	<0.3mm	≤0.5%
	≥0.85mm	≤1.0%
Moisture content (%)	55-65 (OH ⁻ Form)	
Total Capacity(eq/L)	≥1.1 (OH ⁻ Form)	
Bulk Density (g/l)	660-720	
Density (g/l)	1080-1100	
Whole beads count (%)	≥95	
Uniformity coefficient	≤1.1	
Friability	Aver.min (g/bead)	350
	≥200 (g/bead)	95%
TOC leakage*	≤5 ppb after 50 BV rinsing	
Ionic conductivity as packaged*	≤1 μS/cm	

Footnote* Recommended influent water quality: Inlet Resistivity > 17.5 MΩ.cm

PRODUCT INFORMATION

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Recommended Operating Conditions

Maximum Operating Temperature	60°C (single bed)	60°C (mixed bed)
Resin bed depth, min.	800mm (single bed)	450mm (mixed bed)
Flow rate		
Service/fast rinse	10-60 m/h	
Regeneration	4-10 m/h	
Total Rinse	2-5 BV	
Regenerant	NaOH (4-8%)	

Precautions

Resins should be stored in sealed containers or bags where temperature was above 0°C in dry conditions without exposure to direct sunlight.

Do not mix ion exchange resin with strong oxidizing agents; otherwise it will cause violent reactions.

In case of eyes contact with resins, rinse eyes immediately with plenty of water, and consult a specialist.

Material and samples must be disposed according to local regulations.

Dry polymers will expand when become wetted and may cause an exothermic reaction.

Spilled materials may be slippery.

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