

SEPLITE® Monojet™ SC7700U

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

•Descriptions

SEPLITE® Monojet™ SC7700U Ion Exchange Resin is a high-purity, high-capacity resin with uniform particle size designed specifically for use in the ultrapure water preparation.

This resin could be available in both H⁺ form and Na⁺ form, the ionic conversion rate of H⁺ form is up to 99%.

The resin is normally paired with SEPLITE® Monojet™ SA8500U in OH⁻ form in mixed beds, the dark color is visible and different from the light color of anion resin therefore suitable for regenerable mixed bed.

•Physical and Chemical Characteristics

Matrix Structure	Gel, Styrene-divinylbenzene	
Functional group	Sulfonic acid	
Shipping form	H ⁺	
Physical Appearance	Amber to dark translucent spherical beads	
Particle size (mm)	0.65±0.05mm	
	<0.3mm	≤0.5%
	≥0.85mm	≤5.0%
Moisture content (%)	46-51 (H ⁺ Form)	
Total Capacity(eq/L)	≥2.0 (H ⁺ Form)	
Bulk Density (g/l)	780-870	
Density (g/l)	1220-1260	
Whole beads count (%)	≥95	
Uniformity coefficient	≤1.1	
Friability	Aver.min (g/bead)	500
	≥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	120°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	H2SO4 (1-8%), HCl (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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