

Free Flowing Monosphere Resin

Type SC3130

PRODUCT INFORMATION

SEPLITE® FREE FLOWING MONOSPHERE RESIN SC3130

Uniform particle size, Gel Strong acid cation resin for softening and demineralization applications

DESCRIPTION

SEPLITE® Free Flowing Monosphere SC3130 Ion Exchange Resin is suitable for use in softening and demineralization applications, especially for high-performance and cost-effective requirements. Thanks to the uniform particle size and excellent chemical properties, this resin yields high operating capacity and helps users to save on chemical regenerants and rinsing water.

SEPLITE® SC3130 is compatible with co-current or countercurrent systems as well as mixed bed or single bed units. The resin is available in Na⁺ or H⁺ form.

The resins are produced fully in accordance with the regulations prescribed under Resolution ResAP (2004) 3 on ion exchange and adsorbent resins used in food processing.

APPLICATIONS

- Softening
- Demineralization

PHYSICAL AND CHEMICAL CHARACTERISTICS

Matrix structure	Gel, Styrene-divinylbenzene	
Functional group	Sulfonic acid	
Shipping form	Na ⁺ (H ⁺ is also available)	
Physical appearance	Amber to dark brown translucent spherical beads	
Particle size (mm)	0.60±0.05mm <0.3mm ≤0.1% ≥0.85mm ≤3.0%	
Moisture content (%)	42-48 (Na ⁺ Form) 50-55 (H ⁺ Form)	
Total capacity (eq/L)	≥2.0 (Na ⁺ Form)	≥1.8 (H ⁺ Form)
Bulk density (g/l)	750-850	720-820
Density (g/l)	1200-1250	1200-1250
Whole beads count (%)	≥95	≥95
Uniformity coefficient	≤1.1	≤1.1

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RECOMMENDED OPERATING CONDITIONS

Operating temp.	max. °C	120
Operating pH		0-14
Min. Bed depth	mm	800
Pressure drop	max. kPa	280
Backwash flow rate	max. m/h	15-25 (at 20°C)
Backwash bed expansion	Approx. vol.%	4 (at 20°C, per m/h)
Backwash freeboard	vol. %	60-100
Regenerant (down flow & up flow regeneration)	HCl / H ₂ SO ₄ / NaCl	
Regeneration level	Approx. g/l	60 - 190
Regeneration concentration	wt. %	8 - 10
Contact time	Minutes	15 - 45
Regeneration flow rate	Approx. m/h	5 - 20
Rinse water requirement (slow/fast)	Approx. BV	2-7

PRECAUTIONS

The resins should be stored in sealed containers or bags in a dry environment without exposure to direct sunlight and a room temperature of at least 0°C.

Do not mix ion exchange resin with strong oxidizing agents, as this can cause violent reactions.

If your eyes come in contact with the resins, immediately rinse your eyes with plenty of water and consult a specialist.

Material and samples must be disposed of according to local regulations.

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

Spilled materials may be slippery.

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Monojet™ SC3130 Free flowing monosphere resin is produced by Sunresin New Materials Co. Ltd. for Pollet Water Group.

This information is general information and may differ from that based on actual conditions. For more information about Monojet™ SC3130 please contact your local PWG company.