

EURORESIN SCP-FG

ION EXCHANGE RESIN FOR FOOD APPLICATIONS

PRODUCT INFORMATION

Strongly acid cation macro-porous resin

EURORESIN SCP-FG is a macro-porous strong acid cation exchange resin, supplied in sodium form. It is a copolymer of styrene and DVB with sulphonic acid exchange groups. It has excellent physical and chemical properties, high operating capacity, lower pressure drop, well physical and chemical stability. Its matrix promotes better kinetics and better diffusion rates into and out of the beads. EURORESIN SCP-FG is mainly used for sugars, grape, apple and others fruit juices demineralization and decolorization processes.

EURORESIN SCP-FG complies with the existing UE and US food processing rules and regulations.

CHARACTERISTICS

Chemical structure	Copolymer styrene-DVB
Type	Strong acid cation resin poreous type
Physical form	Brown opaque beads
Functional group	Sulphonic SO_3H^+
Ionic form at delivery	Sodium Na
Total capacity	> 1,8 meq / ml > 4,35 meq / dry g
Water retention	45 – 55 %
Particle size	0,425 – 1,18 mm
Density	780 – 850 g/l
Reversible swelling $\text{Na}^+ \rightarrow \text{H}^+$	7% max
Max operative temperature	150 °C
Stability pH	1 - 14
Package	25 l bag

OPERATING CONDICTION

Specific flow rate	5 – 50 l/h/l resin
Linear flow rate	5 – 50 m/h
Bed expansion	min 50% 10 – 12 m/h
Regenerant	Solution HCl 5 – 10% H_2SO_4 1,5-6%
Regenerant level	40 – 150 g HCl 100%/l resin 60 – 200 g H_2SO_4 100%/l resin
Regenerant flow rate	5 – 20 l/h/l resin
Regeneration contact time	30 minutes
Slow rinse flow rate	5 – 20 l/h/l resin
Slow rinse volume	1,5 resin volumes
Fast rinse flow rate	5 – 50 l/h/l resin
Fast rinse volume	5 resin volumes
Minimum bed depth	800 mm

EURORESIN CTC® S.r.l.

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EURORESIN SCP-FG

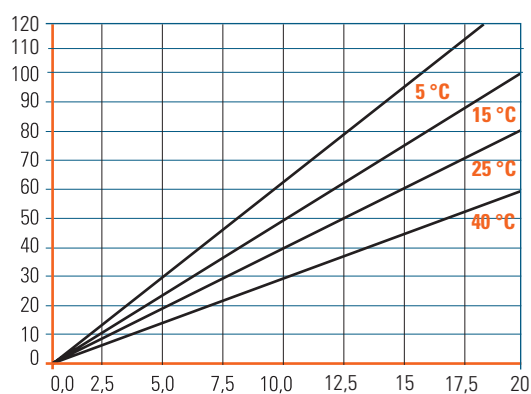
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PROPERTY

EURORESIN SCP-FG has selected particle size and high mechanical resistance in order to reduce the pressure drop. It is suggested for floating bed system.

BED EXPANSION IN WATER

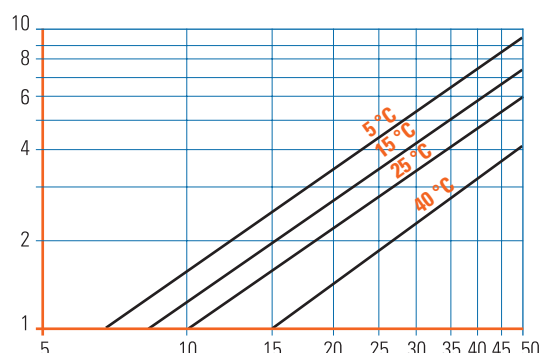
Bed expansion depend from flow rate and temperature.



LINEAR FLOW RATE m/h

PRESSURE DROP IN WATER

Pressure drops are reduced thanks to selected particle size, they are related to high bed depth, linear flow rate and temperature.



LINEAR FLOW RATE m/h

OTHER APPLICATIONS

- Water treatment
- Liquid sugars decolorization
- Milk whey industry
- Pharmaceutical industry
- Metallurgical industry

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