

EURORESIN SCM-FG

ION EXCHANGE RESIN FOR FOOD APPLICATIONS

PRODUCT INFORMATION

Strongly acid cation gel resin

EURORESIN SCM-FG is gel strong acid cation exchange resin, supplied in sodium form. It is a copolymer of styrene and 10% of 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 SCM-FG regenerated with H₂SO₄ or HCl is mainly used for wine and grape juices acidification. It is able to remove completely the potassium responsible for the formation of potassium bi-tartrate precipitate. EURORESIN SCM-FG complies with the existing UE and US food processing rules and regulations.

CHARACTERISTICS

Chemical structure	Copolymer styrene-DVB
Type	Strong acid cation resin gel type
Physical form	Brown transparent beads
Functional group	Sulphonic SO ₃ H
Ionic form at delivery	Sodium Na
Total capacity	2,2 eq/l min.
Water retention	45 – 50 %
Particle size	0,425 – 1,18 mm
Density	780 – 850 g/l
Reversible swelling Na⁺ → H⁺	5 % max
Max operating 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 ₂ SO ₄ 1,5-6%
Regenerant level	40 – 150 g HCl 100%/l resinn 60 – 200 g H ₂ SO 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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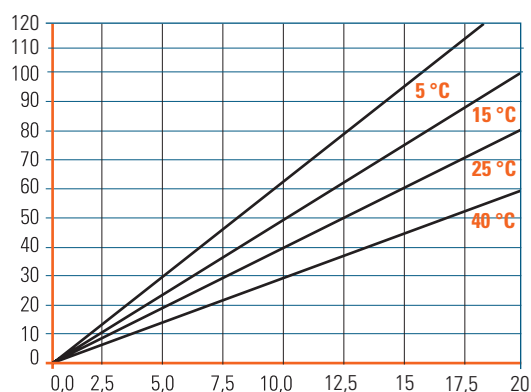
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HYDRAULIC PROPERTY

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

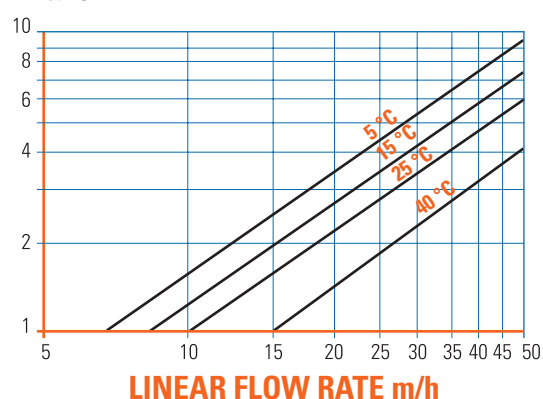
BED EXPANSION IN WATER

Bed expansion depend from flow rate and temperature.



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.



OTHER APPLICATIONS

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

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