

# EURORESIN SC-FG

ION EXCHANGE RESIN FOR FOOD APPLICATIONS

## PRODUCT INFORMATION

### Strongly acid cation gel resin

EURORESIN SC-FG is gel 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. It is used for softening and also fruit juices decationization.

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

### CHARACTERISTICS

<b>Chemical structure</b>	Copolymer styrene-DVB
<b>Type</b>	Strong acid cation resin gel type
<b>Physical form</b>	Brown transparent beads
<b>Functional group</b>	Sulphonic SO <sub>3</sub> H
<b>Ionic form at delivery</b>	Sodium Na
<b>Total capacity</b>	2 eq/l min.
<b>Water retention</b>	45 – 55 %
<b>Particle size</b>	0,425 – 1,18 mm
<b>Density</b>	780 – 850 g/l
<b>Reversible swelling</b> Na <sup>+</sup> → H <sup>+</sup>	5 % max
<b>Max operating temperature</b>	150 °C
<b>Stability</b>	pH 1 - 14
<b>Package</b>	25 l bag

### OPERATING CONDICTION

<b>Specific flow rate</b>	5 – 50 l/h/l resin
<b>Linear flow rate</b>	5 – 50 m/h
<b>Bed expansion</b>	min 50% 10–12 m/h
<b>Regenerant</b>	Solution HCl 5 – 10% H <sub>2</sub> SO <sub>4</sub> 1,5-6%
<b>Regenerant level</b>	40 – 150 g HCl 100%/l resinn 60 – 200 g H <sub>2</sub> SO <sub>4</sub> 100%/ l resin
<b>Regenerant flow rate</b>	5 – 20 l/h/l resin
<b>Regeneration contact time</b>	30 minutes
<b>Slow rinse flow rate</b>	5 – 20 l/h/l resin
<b>Slow rinse volume</b>	1,5 resin volumes
<b>Fast rinse flow rate</b>	5 – 50 l/h/l resin
<b>Fast rinse volume</b>	5 resin volumes
<b>Minimum bed depth</b>	800 mm

**EURORESIN CTC® S.r.l.**

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# EURORESIN SC-FG

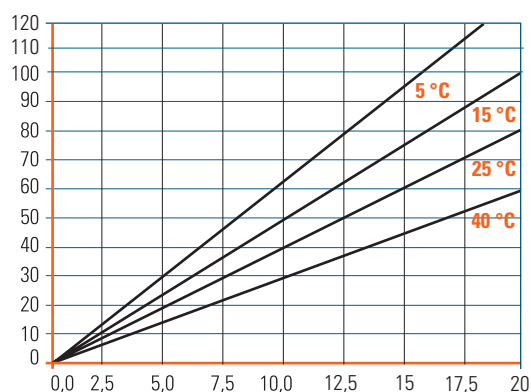
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## HYDRAULIC PROPERTY

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

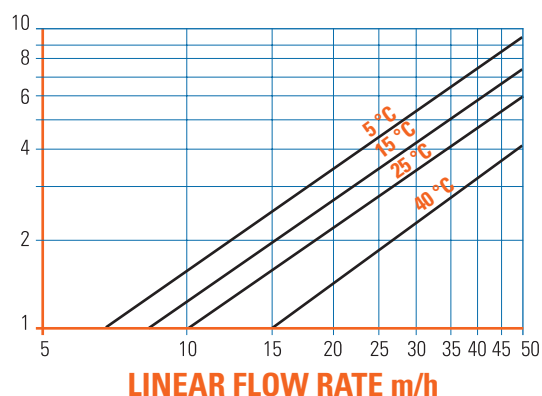
### BED EXPANSION IN WATER

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.



LINEAR FLOW RATE m/h

## OTHER APPLICATIONS

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

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