

# EURORESIN WCF-FG

ION EXCHANGE RESIN FOR FOOD APPLICATIONS

## PRODUCT INFORMATION

### Macroporous weak acid cation exchange resin

EURORESIN WCF-FG is an acrylic macro porous weak acid cation exchange resin contain carboxylic groups. It has excellent chemical physical property, high capacity and low pressure drop. It is suitable for temporary hardness removal and for special applications such as treatment of aqueous organic solutions and selective separation of heavy metal cations. It can be also used for isolating and purification of biochemical and pharmaceutical substances. EURORESIN WCF-FG has high operating capacity for divalent cations and extremely high regeneration efficiency. The resin is supplied in hydrogen form. It is suitable for industrial demineralization on counter-current and co-current systems, floating bed and layered bed. EURORESIN WCF-FG is agree with U.E. regulation about water treatment for human consumption and it complies with the definition in FDA.CFR21- 173.25.

### CHARACTERISTICS

Chemical structure .....	Poliacrylic
Type .....	Weak acid cation resin porous type
Physical form .....	Brown opaque beads
Functional group .....	Carboxylic
Ionic form at delivery .....	Hydrogen H <sup>+</sup>
Total capacity .....	> 4,2 meq/ml
Water retention .....	48 – 55 %
Particle size .....	0,425 – 1,18 mm
Density .....	740 – 800 g/l
Reversible swelling      Na <sup>+</sup> → H <sup>+</sup> .....	+50 %
Reversible swelling      H <sup>+</sup> → Ca <sup>+</sup> .....	+10 %
Max operating temperature .....	120 °C
Stability .....	pH 1 - 14
Package .....	25 l bag

### OPERATING CONDICTION

Specific flow rate .....	5 – 50 l/h/l resin
Linear flow rate .....	5 – 60 m/h
Bed expansion .....	50%
Regenerant .....	Solution HCl 1 – 10% H <sub>2</sub> SO <sub>4</sub> 0,5-5%
Regenerant level .....	40 – 150 g HCl 100%/l resin
	60 – 200 g H <sub>2</sub> SO <sub>4</sub> 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 WCF-FG

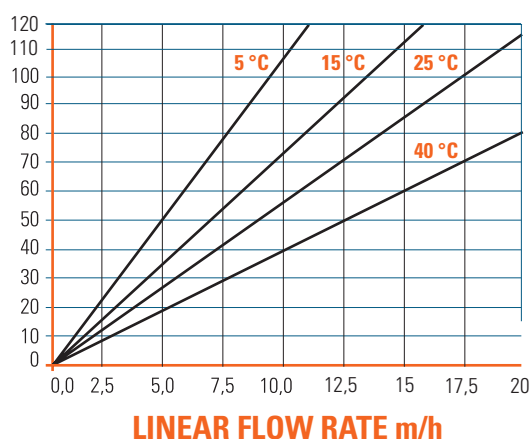
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## HYDRAULIC PROPERTY

EURORESIN WCF-FG has selected particle size and high mechanical resistance in order to reduce the pressure drop.

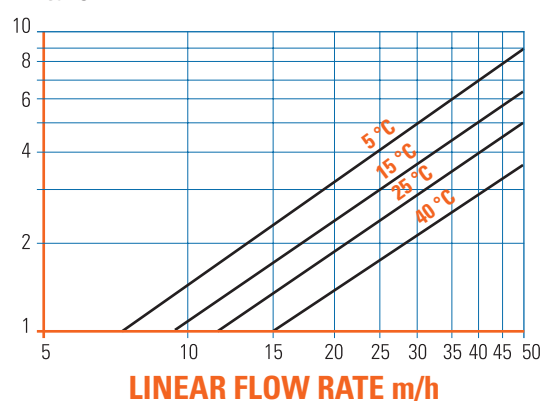
### BED EXPANSION IN WATER

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.



### RECOMMENDED HCl QUALITY FOR REGENERATION (\*)

Suspended solids	0 ppm
Chlorine	10 ppm
Iron	20 ppm
Heavy metals	10 ppm
Sulphates	5000 ppm

(\*) Values referred to HCl 100%

### RECOMMENDED H<sub>2</sub>SO<sub>4</sub> QUALITY FOR REGENERATION

Purity	95 %
Suspended solids	0 ppm
Iron	50 ppm
Arsenic	5 ppm
Lead	5 ppm

(\*) Values referred to H<sub>2</sub>SO<sub>4</sub> 100%

## OTHER APPLICATIONS

- Water industry, demineralization and dealkalinization
- Pharmaceutical industry

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