

# EURORESIN D401-FG

ION EXCHANGE RESIN FOR FOOD APPLICATIONS

## PRODUCT INFORMATION

### Chelating resin for Iron and heavy metal removal

EURORESIN D401-FG is a macro porous selective ion exchange resin for heavy metal removal with iminodiacetate active group. EURORESIN D401-FG is suitable for heavy metal removal in water and food processes. It is mainly used for the removal of iron and copper that may be present in grape juices or wine. It has high chemical physical stability and excellent regenerative efficiency, the selected particle size and the high ion exchange kinetics allow the use of the resin even with concentrated solutions. EURORESIN D401-FG complies with the existing UE and US food processing rules and regulations.

#### CHARACTERISTICS

<b>Chemical structure</b> .....	Copolymer styrene-DVB
<b>Type</b> .....	Chelating selective resin
<b>Physical form</b> .....	White opaque spherical beads
<b>Functional group</b> .....	Iminodiacetate
<b>Ionic form at delivery</b> .....	Sodium
<b>Total capacity</b> .....	2,0 eq/l min.
<b>Water retention</b> .....	50 – 60 %
<b>Particle size</b> .....	0,425 – 1,18 mm
<b>Density</b> .....	730 – 750 g/e
<b>Reversible swelling</b> <b>Na+ → H+</b> .....	-30 % max
<b>Max operating temperature Na+ - form</b> .....	120 °C
<b>Stability</b> .....	pH 1 - 14
<b>Package</b> .....	25 l bag

#### OPERATING CONDICTION

<b>Specific flow rate</b> .....	5 – 40 l/h/l resin
<b>Linear flow rate</b> .....	5 – 40 m/h
<b>Bed expansion</b> .....	min 50%
<b>Regenerant</b> .....	Solution HCl 5% - NaOH4%
<b>Regenerant level</b> .....	50 – 80 g HCl 100%/l resinn 40 – 60 g NaOH 100% / l resin
<b>Regenerant flow rate</b> .....	3 – 5 l/h/l resin
<b>Regeneration contact time</b> .....	30 minutes
<b>Slow rinse flow rate</b> .....	3 – 5 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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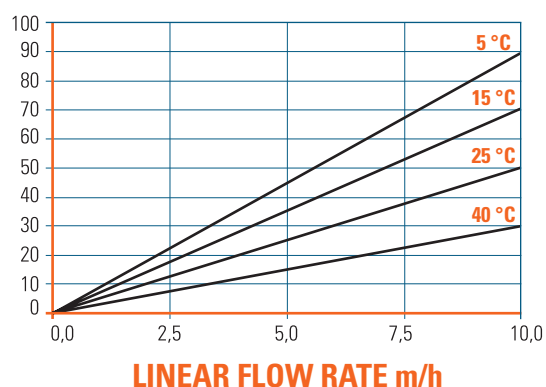
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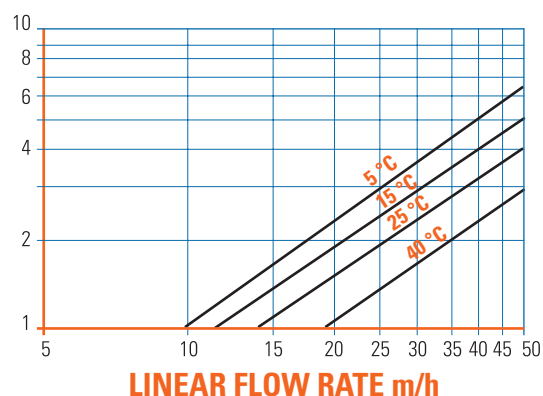
## PROPERTY

Operating capacity depends on various parameters, such as inlet composition, endpoint, kinetic load and regenerant level.

### BED EXPANSION IN WATER



### PRESSURE DROP IN WATER



### 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 NaOH QUALITY FOR REGENERATION

Silica .....	10 ppm
Iron .....	10 ppm
Mercury .....	2 ppm
Heavy metal .....	5 ppm
Chlorates .....	10 ppm as O <sub>2</sub>
Sodium carbonate .....	0,5 %
Sodium chloride .....	0,5 %
Sodium sulphate .....	0,2 %
Hardness .....	0 %
Suspended solids .....	0 %

(\*) Values referred to NaOH 100%

## OTHER APPLICATIONS

- Food industry
- Pharmaceutical industry
- Waste water treatment
- Alcohols purification

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