

EURORESIN D319-FG

ION EXCHANGE RESIN FOR FOOD APPLICATIONS

PRODUCT INFORMATION

Poly-acrylate macro-porous weak base anion resin

EURORESIN D319-FG is a macro-porous type poly-acrylate weak base anion exchange resin with homogenous calibrated porosity degree. This resin has a very high exchange capacity, high regenerative efficiency and high mechanical resistance to osmotic shocks. EURORESIN D319-FB has a long operating time due to its low swelling and high specific weight. The consumption of regenerant is slightly higher than its exchange capacity, close to the stoichiometric value. It is mainly used in sugars industry and it is also suitable for the production of natural fruit sugars. in the processes of demineralization and decoloration of grape, apple, date and other juices. Its high anion exchange capacity of organic acids allows to have low volumes of regeneration eluate in relation to the volume of processed juice.

EURORESIN D319-FG complies with the existing UE and US food processing rules and regulations.

CHARACTERISTICS

Matrix	Porous copolymer acrylate-DVB
Total exchange capacity eq/l	2.70
Water retention	50 - 55
Shipping weight g/ml	0.65 - 0.75
Specific density g/ml	1.05 - 1.15
Particle size (0.40 - 1.25 mm)%	≥ 95
Reversible swelling	Max 15 %
Homogeneous coefficients	≤1.60
Appearance	Milky white to light yellow, Spherical Beads
Ionic form at delivery	Free amine
Packaging	25 lt - 1000 lt bags

OPERATING CONDICTION

Minimum bed depth	800 mm
Regenerant level range	60 – 150 g NaOH 100% / lt resin
Concentration of regenerant	2 - 4%
Max operating temperature	60 °C
Operating flow rate	15 - 45 m/h
Flow rate of regenerate solution	4 - 6 m/h

EURORESIN CTC® S.r.l.

Via dei Platani, 635 • 26034 PIADENA DRIZZONA (CR) • Tel 0375.980133 • Cell. 335.6386094
e-mail: pncsrsls@gmail.com • Technical dept: +39 3357867342

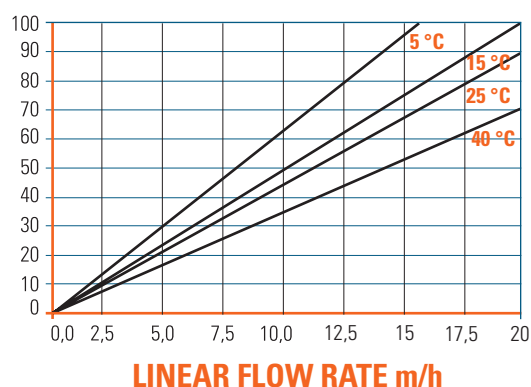
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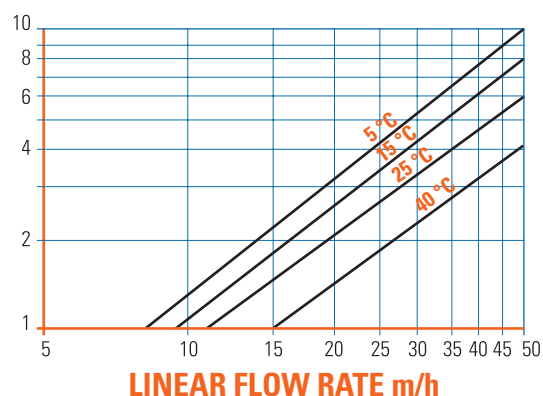
PROPERTY

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 NaOH QUALITY FOR REGENERATION (*)

Silica	10 ppm
Iron	10 ppm
Mercury	2 ppm
Heavy metals	5 ppm
Chlorates	10 ppm as O ₂
Sodium carbonate	0,5 %
Sodium chloride	0,5%
Sodium sulphate	0,2%
Hardness	0 ppm
Suspended solids	0 ppm

(*) Values referred to NaOH 100%

RECOMMENDED NaCl QUALITY FOR REGENERATION

Purity	97 % min.
Moisture	2 % max
Suspended solids	0 %
Ca ⁺⁺ + Mg ⁺⁺	0,5 % max
Sulphates	1 % max
Soluble iron	0 %
Alkalinity	0,001max ppm CaCO ₂

(*) Values referred to NaOH 100%

OTHER APPLICATIONS

- Water treatment
- Pharmaceutical industry
- Metallurgical industry
- Sugar industry

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