TDS 10024

Product Information

RELITE CFA - Strongly Acidic Resin

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RELITE CFA

RELITE CFA is a gel type strongly acidic cation exchange resin with a characteristic DVB content optimized for softening applications.

This resin shows high operating capacity, good exchange kinetics and mechanical stability and is supplied in a calibrated screen grade to permit the direct use in classical counter-current regeneration systems.

Its composition complies with the existing food processing rules and regulations.

The most important applications of RELITE CFA are potable waters household softening and process waters industrial softening.

TYPICAL CHARACTERISTICS

Matrix : Gel copolymer styrene-DVB

Functional group : Sulphonic

Colour and physical form : Yellowish brown transparent beads

Particle size range : 0.425 ÷ 1.18 m m

Effective size : 0.5 min m m

Uniformity Coefficient : 1.5 max

lonic form at the delivery : Na*

Volume change : - 10 max % Na+ --> Ca++ form

Total exchange capacity : 1.9 min eq/l Water retention : $45 \div 52$ %

Chemical stability : stable in the whole pH range

Thermal stability : 120 max °C
Shipping density : 830 g/l approx.
Standard packaging : 25 o 1000 liter bags

RECOMMENDED OPERATING CONDITIONS

°C

Operating pH range : $1 \div 14$ Operating temperature range : $5 \div 100$

Minimum bed depth : 800 m m (industrial softening)

: 500 mm (household softening)

(*) Except for particular household applications, where higher flowrates can be achieved.





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OPERATING CAPACITY

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

The operating capacities obtainable with RELITE CFA at different regeneration levels are indicatively listed in the following Table:

Operating Capacity g CaCO3 / I resin	40	58	70
Regenerant Level g NaCl / I resin	80	160	240

Fig. 1 BED EXPANSION IN WATER

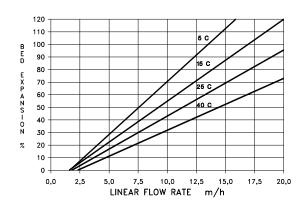
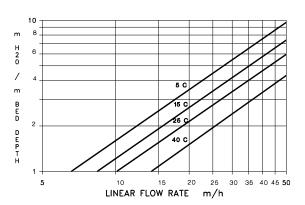


Fig. 2 PRESSURE DROP IN WATER



RECOMMENDED NaCI QUALITY FOR REGENERATION

97 % Purity min Moisture 2 % max Suspended solids 0 % Ca++ Mg++ 0.5 % max Soluble iron 0 % 0.001 Alkalinity max ppm CaCO₃