PRODUCT DATA SHEET

Purolite™ C100E/1420

polistirenic Gel, Rasina cationica puternic acida, forma sodiu, Categoria apă potabilă

PRINCIPALELE APLICATII

- Dedurizare - apă potabilă
- prelucrarea produselor alimentare i băuturilor
- Dedurizare - industrială

AVANTAJE

- Regenerare eficientă
- o performană cinetică buna
- Extractibile reduse

APROBARI DE REGLEMENTARE

- În conformitate cu Regulamentul FDA 21 CFR 173.25 pentru tratarea alimentelor, răini schimbătoare de ioni
- Certificare Kosher
- Certificat de WQA conform standardului NSF ANSI 61
- Certificat de WQA conform standardului NSF ANSI 44

AMBALAJE TIPICE

- sac 1 ft³
- 25 L sac
- Butoi (Fibră) de 5 CF
- 1 M³ supersac
- supersac de 42 CF

** Acest produs este certificat numai pentru sigurana materialelor*

CARACTERISTICI TIPICE FIZICE SI CHIMICE

Structura polimerica	Copolimer gel polistirenic reticulat cu divinilbenzen
Aspect	Perle sferice
Grupari functionale	acid sulfonic
Forma ionica	forma de Na^+
Capacitatea totală (min.)	1.9 eq/L (41.5 Kgr/ft³) (forma de Na^+)
reinerea umidităii	41 - 49 % (forma de Na^+)
Distribuia granulometrică	300 - 1200 µm
< 210 µm (max.)	0.1 %
< 300 µm (max.)	1 %
coeficient de uniformitate (max.)	1.7
Dilatare reversibilă, $Na^+ \rightarrow H^+$ (max.)	10 %
Dilatare reversibilă, Ca2 + → Na + (max.)	8 %
densitate specifică	1.27
Greutate de transport (aprox.)	800 - 840 g/L (50.0 - 52.5 lb/ft³)
Limita de temperatură	120 °C (248.0 °F)

Caracteristici hidraulice

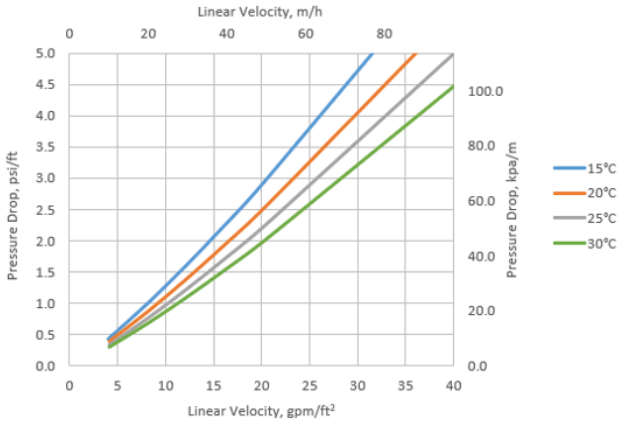
PRESSURE DROP

The pressure drop across a bed of ion exchange resin depends on the particle size distribution, bed depth, and voids volume of the exchange material, as well as on the flow rate and viscosity of the influent solution. Factors affecting any of these parameters—such as the presence of particulate matter filtered out by the bed, abnormal compressibility of the resin, or the incomplete classification of the bed—will have an adverse effect, and result in an increased head loss. Depending on the quality of the influent water, the application and the design of the plant, service flow rates may vary from 10 to 40 BV/h.

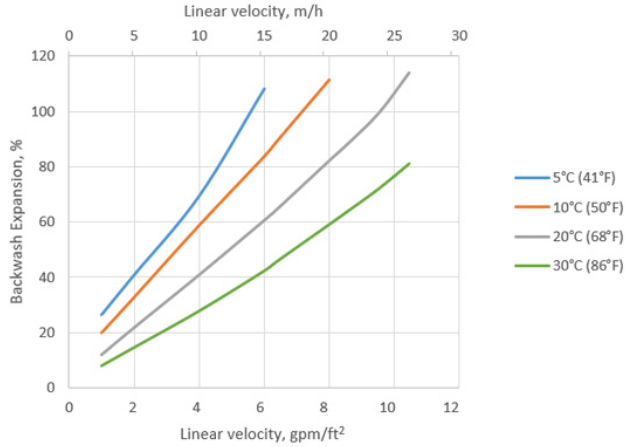
BACKWASH

During up-flow backwash, the resin bed should be expanded in volume between 50 and 70% for at least 10 to 15 minutes. This operation will free particulate matter, clear the bed of bubbles and voids, and reclassify the resin particles ensuring minimum resistance to flow. When first putting into service, approximately 30 minutes of expansion is usually sufficient to properly classify the bed. It is important to note that bed expansion increases with flow rate and decreases with influent fluid temperature. Caution must be taken to avoid loss of resin through the top of the vessel by over expansion of the bed.

PRESSURE DROP ACROSS RESIN BED



BACKWASH EXPANSION OF RESIN BED



Ecolab is a global developer, manufacturer, and supplier of Purolite™ Resins including ion exchange, catalyst adsorbent and advanced polymers that make the world cleaner and healthier.

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We're ready to solve your process challenges.

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