PRODUCT DATA SHEET

Purolite™ A103SPlus

polistirenic macroporos, răină schimbătoare de anioni slab bazica, Forma ionica: bază liberă, Sweetener Grade

PRINCIPALELE APLICATII

- demineralizare - soluii zaharoase
- decolorare - soluii zaharoase

AVANTAJE

- Capacitate ridicată de operare
- O eficienă mai bună a eluiei compusilor organici în timpul regenerării
- Rezistenă excelentă la ocul osmotic
- Rezistenă fizică la spargere mecanică
- caracteristici bune la spălare

APROBARI DE REGLEMENTARE

- Certificare Kosher
- În conformitate cu Regulamentul FDA 21 CFR 173.25 pentru tratarea alimentelor, răini schimbătoare de ioni
- Certificare Halal LPPOM MUI

AMBALAJE TIPICE

- sac 1 ft³
- 25 L sac
- Butoi (Fibră) de 5 CF
- 1 M³ supersac
- supersac de 42 CF
- Tanc depozitare (numai pentru America de Nord)

CARACTERISTICI TIPICE FIZICE SI CHIMICE

Structura polimerica	polimer polistiren macroporos reticulat cu DVB
Aspect	Perle sferice
Grupari functionale	Amina tertiara
Forma ionica	FB (baza libera)
Capacitatea totală (min.)	1.5 eq/L (32.8 Kgr/ft³) (forma FB)
SBC (capacitate puternic bazica) (max)	12 - 20 %
reinerea umidităii	51 - 58 % (forma Cl^-)
Distribuia granulometrică	425 - 1200 µm
< 425 µm (max.)	2 %
coeficient de uniformitate (max.)	1.6
Dilatare reversibilă, FB → Cl- (max.)	25 %
densitate specifică	1.04
Greutate de transport (aprox.)	645 - 675 g/L (40.3 - 42.2 lb/ft³)
Limita de temperatură	100 °C (212.0 °F) (forma Cl^-)
Limita de temperatură	60 °C (140.0 °F) (forma FB)

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Caracteristici hidraulice

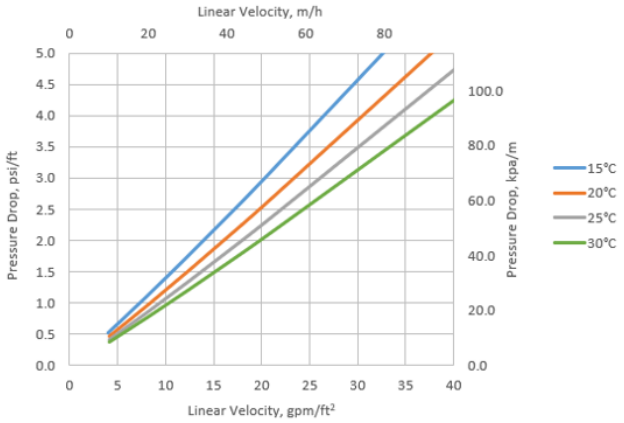
PRESSURE DROP

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.

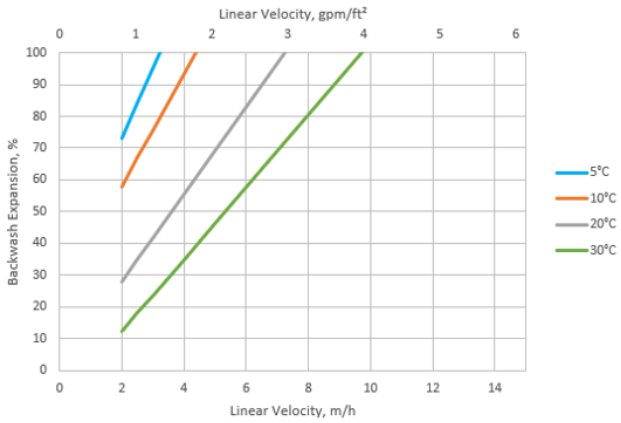
BACKWASH

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.

www.puroliteresins.com

We're ready to solve your process challenges.

For further information on products and services, visit www.puroliteresins.com or complete a Contact Us form via PuroliteResins.com/contact-us or use the QR code.

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