PRODUCT DATA SHEET

# Purolite™ C100x16MBH

**polistirenic Gel, Rasina cationica puternic acida, forma ionica: hidrogen, Capacitate mare, Categoria pat mixt**

## PRINCIPALELE APLICATII

- demineralizare - industrială
- Purificarea condensului

## AVANTAJE

- separare eficientă
- Selectivitate mai mare pentru sodiu decât răinile standard
- Capacitate ridicată de operare
- Rezistenă superioară la oxidare
- stabilitate fizică i chimică excelentă

## AMBALAJE TIPICE

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

## CARACTERISTICI TIPICE FIZICE SI CHIMICE

| | |
|---|---|
| Structura polimerica | Copolimer gel polistirenic reticulat cu divinilbenzen |
| Aspect | Perle sferice |
| Grupari functionale | acid sulfonic |
| Forma ionica | forma $H^+$ |
| Capacitatea totală (min.) | 2.4 eq/L (52.4 Kgr/ft³) ( forma $H^+$ ) |
| reinerea umidităii | 35 - 40 % ( forma $H^+$ ) |
| Distribuia granulometrică | 425 - 1200 µm |
| < 425 µm (max.) | 2 % |
| coeficient de uniformitate (max.) | 1.6 |
| Dilatare reversibilă, $Na^+ \rightarrow H^+$ (max.) | 3 % |
| densitate specifică | 1.23 |
| Greutate de transport (aprox.) | 770 - 810 g/L (48.1 - 50.6 lb/ft³) |
| Limita de temperatură | 120 °C (248.0 °F) |

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# Caracteristici hidraulice

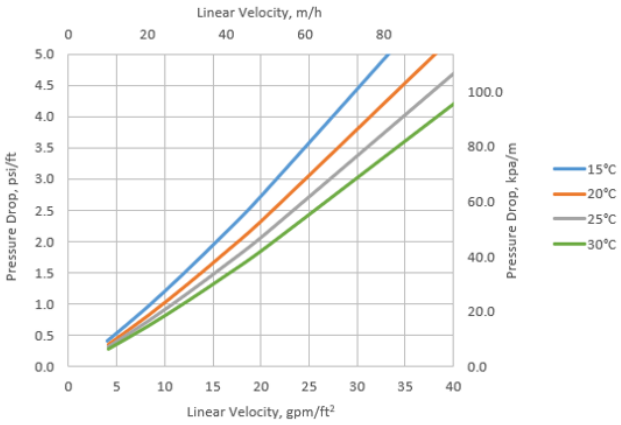
## PRESSURE DROP

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.

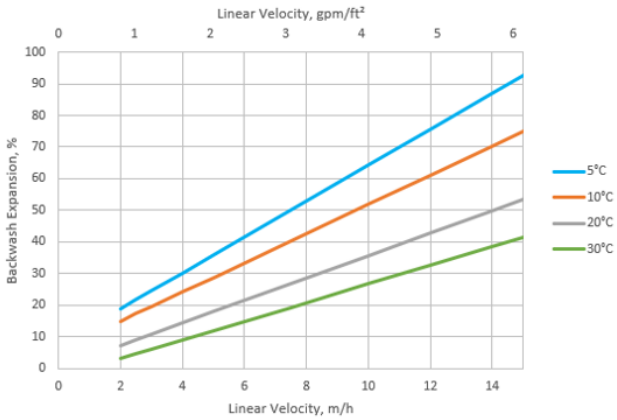
## BACKWASH

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.

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