PRODUCT DATA SHEET

Purolite™ Select SRC1160H

polistirenic Gel, Rasina cationica puternic acida, forma ionica: hidrogen, Capacitate mare, Premium Grade

PRINCIPALELE APLICATII

- Purificarea condensului
- demineralizare - apă de puritate mare

AVANTAJE

- Low leachable metals
- Low leachable TOC
- Dimensiunea uniformă a particulelor
- stabilitate fizică i chimică excelentă
- separare excelentă i vizibilitate
- Rezistenă mare la uzură

SISTEME

- Paturi mixte folosite la purificarea condensului
- Cationit initial in purificarea condensului

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 - 43 % (forma H^+)
< 425 µm (min.)	0.5 %
diametru mediu	660 ± 50 µm
coeficient de uniformitate	1.05 - 1.2
conversie (min.)	99 % (forma H^+)
Impurităi de sodiu (max.)	40 ppm
Impurităi de fier (max.)	50 ppm
Valoarea medie a rezistentei la spargere	1000 g
Dilatare reversibilă, $Na^+ \rightarrow H^+$ (max.)	4 %
densitate specifică	1.27
Greutate de transport (aprox.)	780 - 840 g/L (48.8 - 52.5 lb/ft³)
Limita de temperatură	120 °C (248.0 °F)
Recommended Mixed Bed Pairing	Purolite™ Select SRA5500OH, SRA5004SO4, SRA5004OH

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Caracteristici hidraulice

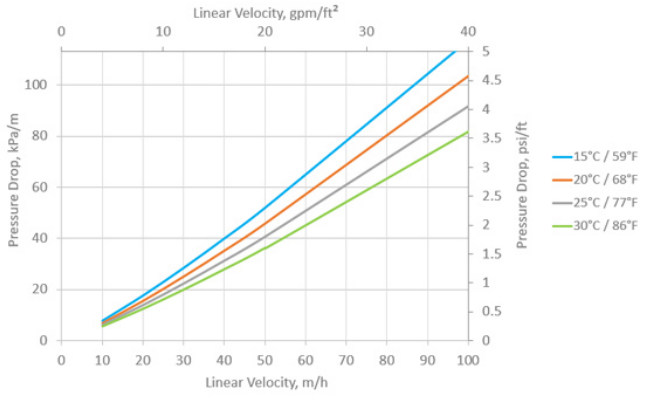
PRESSURE DROP

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.

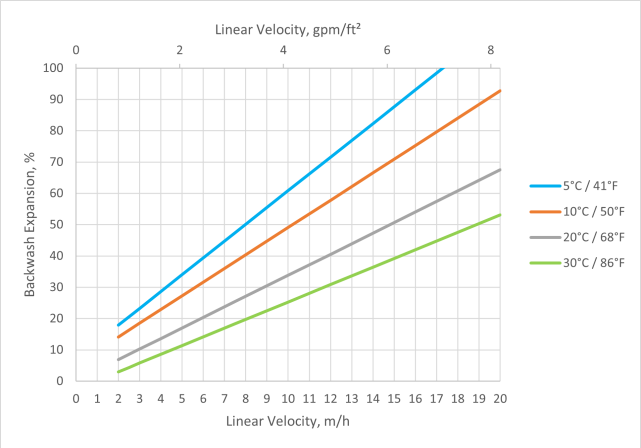
BACKWASH

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



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