PRODUCT DATA SHEET

# Purolite™ Select SRA5004SO4

**polistirenic macroporos, Rasinina Anionica puternic bazica de tip I, Forma sulfat, Premium Grade**

## PRINCIPALELE APLICATII

- Purificarea condensului
- demineralizare - apă de puritate mare

## AVANTAJE

- Rezistenă ridicată la stresul osmotic i mecanic
- Rezistenă superioară la contaminarea organică

## SISTEME

- Polishing Mixed Bed

## 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 | polimer polistiren macroporos reticulat cu DVB |
| Aspect | Perle sferice |
| Grupari functionale | Grupari quaternare de amoniu tip I |
| Forma ionica | $SO_4^{2-}$ |
| Capacitatea totală (min.) | 1.1 eq/L (24.0 Kgr/ft³) ( forma $Cl^-$ ) |
| reinerea umidităii | 54 - 65 % ( forma $Cl^-$ ) |
| Distribuia granulometrică | 430 - 865 µm |
| < 425 µm (max.) | 1 % |
| < 850 µm (max.) | 95 % |
| coeficient de uniformitate (max.) | 1.3 |
| granule întregi (max.) | 98 % |
| Dilatare reversibilă, Cl- → OH- (max.) | 20 % |
| densitate specifică | 1.09 |
| Greutate de transport (aprox.) | 665 - 695 g/L (41.6 - 43.4 lb/ft³) |
| Limita de temperatură | 100 °C (212.0 °F) ( forma $Cl^-$ ) |
| Limita de temperatură | 65 °C (149.0 °F) ( forma $OH^-$ ) |
| Recommended Mixed Bed Pairing | Purolite™ Select SRC1504H, SRC1502H, SRC6500H, SRC6500Na |


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# Caracteristici hidraulice

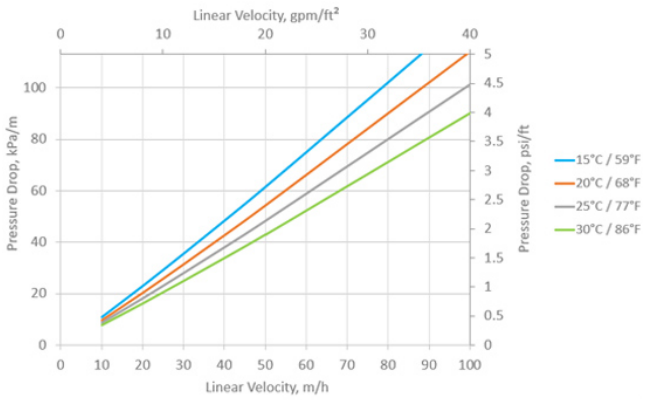
## PRESSURE DROP

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.

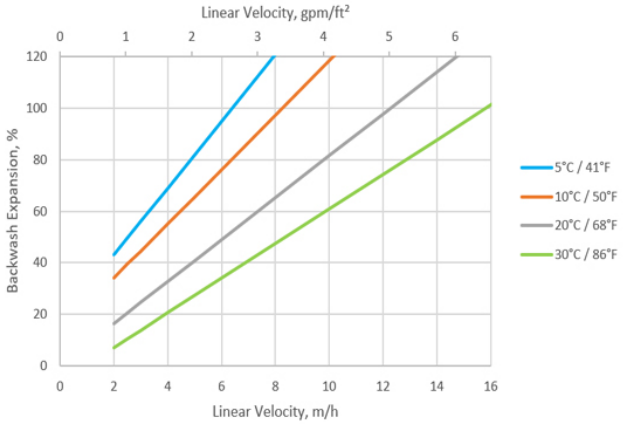
## BACKWASH

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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