PRODUCT DATA SHEET

Purolite™ Select SRA5004SO4

Polystyrenic Macroporous, Type I Strong Base Anion Resin, Sulfate form, Premium Grade

PRINCIPAL APPLICATIONS

- Condensate Polishing
- Demineralization - High Purity Water

ADVANTAGES

- High resistance to osmotic and mechanical stress
- Superior resistance to organic fouling

SYSTEMS

- Polishing Mixed Bed

TYPICAL PACKAGING

- 1 ft³ Sack
- 25 L Sack
- 5 ft³ Drum (Fiber)
- 1 m³ Supersack
- 42 ft³ Supersack

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Type I Quaternary Ammonium
Ionic Form	SO_4^{2-}
Total Capacity (min.)	1.1 eq/L (24.0 Kgr/ft³) (Cl^- form)
Moisture Retention	54 - 65 % (Cl^- form)
Particle Size Range	430 - 865 µm
< 430 µm (max.)	1 %
< 865 µm (min.)	95 %
Uniformity Coefficient (max.)	1.3
Whole Beads (min.)	98 %
Reversible Swelling, $Cl^- \rightarrow OH^-$ (max.)	20 %
Specific Gravity	1.09
Shipping Weight (approx.)	665 - 695 g/L (41.6 - 43.4 lb/ft³)
Temperature Limit	100 °C (212.0 °F) (Cl^- form)
Temperature Limit	65 °C (149.0 °F) (OH^- form)
Recommended Mixed Bed Pairing	Purolite™ Select SRC1504H, SRC1502H, SRC6500H, SRC6500Na

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Hydraulic Characteristics

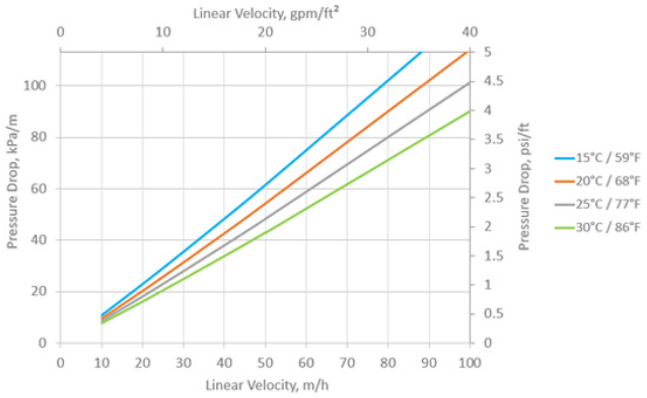
PRESSURE DROP

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.

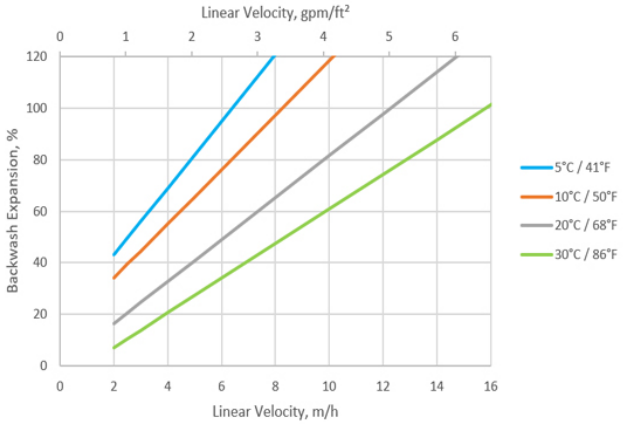
BACKWASH

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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