PRODUCT DATA SHEET

Purolite™ Select SRC1160H

Polystyrenic Gel, Strong Acid Cation Resin, Hydrogen form, High Capacity, Premium Grade

PRINCIPAL APPLICATIONS

- Condensate Polishing
- Demineralization - High Purity Water

SYSTEMS

- Condensate polishing mixed beds
- Condensate polishing lead cation

ADVANTAGES

- Low leachable metals
- Low leachable TOC
- Uniform particle size
- Excellent physical and chemical stability
- Excellent backwash separation for optimal regeneration
- High temperature stability

TYPICAL PACKAGING

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

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Sulfonic Acid
Ionic Form	H^+ form
Total Capacity (min.)	2.4 eq/L (52.4 Kgr/ft³) (H^+ form)
Moisture Retention	35 - 43 % (H^+ form)
< 425 µm (min.)	0.5 %
Mean Diameter	660 ± 50 µm
Uniformity Coefficient	1.05 - 1.2
Conversion (min.)	99 % (H^+ form)
Impurities Sodium (max.)	40 ppm
Impurities Iron (max.)	50 ppm
Average Breaking Weight (min.)	1000 g
Reversible Swelling, $Na^+ \rightarrow H^+$ (max.)	4 %
Specific Gravity	1.27
Shipping Weight (approx.)	780 - 840 g/L (48.8 - 52.5 lb/ft³)
Temperature Limit	120 °C (248.0 °F)
Recommended Mixed Bed Pairing	Purolite™ Select SRA5500OH, SRA5004SO4, SRA5004OH

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Hydraulic Characteristics

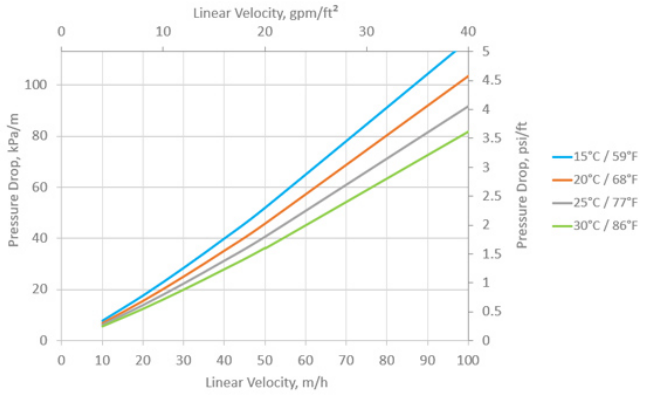
PRESSURE DROP

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.

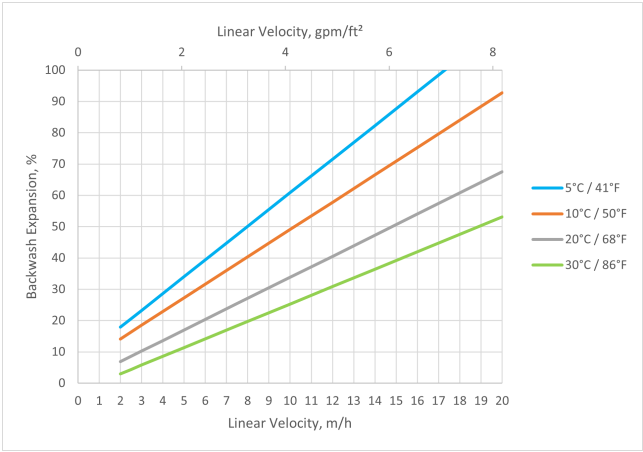
BACKWASH

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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