PRODUCT DATA SHEET

Purolite™ Select SRA4000OH

Polystyrenic Gel, Type I Strong Base Anion Resin, Hydroxide form, Packed Bed Grade, Premium Grade

PRINCIPAL APPLICATIONS

- Demineralization - High Purity Water

SYSTEMS

- Packed Bed Systems

ADVANTAGES

- High operating capacity
- Uniform particle size

TYPICAL PACKAGING

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

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Type I Quaternary Ammonium
Ionic Form	OH^- form
Total Capacity (min.)	1.0 eq/L (21.8 Kgr/ft³) (OH^- form)
Moisture Retention	60 - 70 % (OH^- form)
Mean Diameter	705 ± 55 µm
Uniformity Coefficient (max.)	1.2
< 300 µm (max.)	0.3 %
< 850 µm (min.)	90 %
Whole Beads (min.)	95 %
Conversion (min.)	90 % (OH^- form)
Reversible Swelling, $Cl^- \rightarrow OH^-$ (max.)	30 %
Specific Gravity	1.07
Shipping Weight (approx.)	655 - 690 g/L (40.9 - 43.1 lb/ft³)
Temperature Limit	100 °C (212.0 °F) (Cl^- form)
Temperature Limit	60 °C (140.0 °F) (OH^- form)

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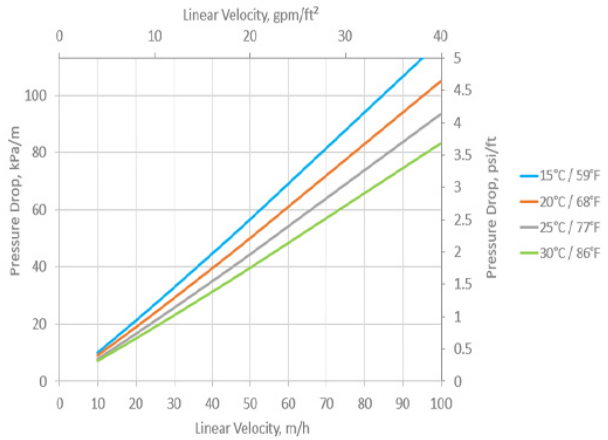
Hydraulic Characteristics

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.

PRESSURE DROP ACROSS 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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