

PRODUCT DATA SHEET

Purolite® PGW6002E

Polystyrenic Gel, Type I Strong Base
Anion Resin, Chloride form, Potable
Water Grade

PRINCIPAL APPLICATIONS

- Hexavalent chromium ions removal
- Uranium Removal
- Sulfate Removal

ADVANTAGES

- High operating capacity
- Exceptional physical stability
- Good kinetic performance

REGULATORY APPROVALS

- Compliant with FDA Regulation 21 CFR 173.25 for Food Treatment, Ion Exchangers
- Water Regulations Advisory Scheme Approved
- Certified by the WQA to NSF/ANSI-61 Standard

TYPICAL PACKAGING

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

** PGW6002E has 25% more operating capacity than A600E/9149*

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

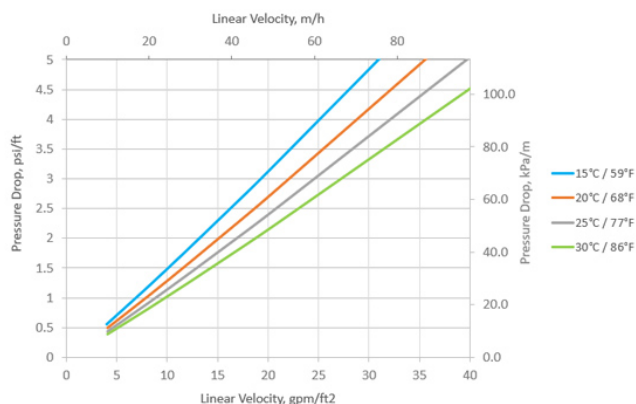
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Type I Quaternary Ammonium
Ionic Form	Cl ⁻ form
Total Capacity (min.)	1.65 eq/L (36.1 Kgr/ft ³) (Cl ⁻ form)
Moisture Retention	40 - 45 % (Cl ⁻ form)
Mean Diameter	570 ± 50 µm
< 425 µm (max.)	1 %
Uniformity Coefficient (max.)	1.2
Specific Gravity	1.09
Shipping Weight (approx.)	675 - 710 g/L (42.2 - 44.4 lb/ft ³)
Temperature Limit	100 °C (212.0 °F) (Cl ⁻ form)
Temperature Limit	60 °C (140.0 °F) (OH ⁻ form)

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.

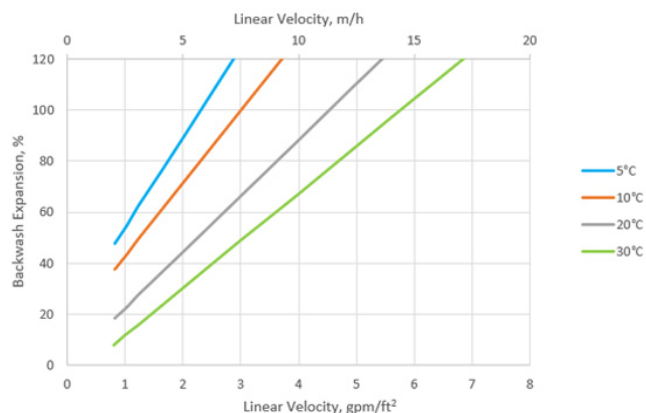
PRESSURE DROP ACROSS RESIN BED



BACKWASH

A 20 BV downflow rinse is required before the vessel is put into service. This rinse can be done onsite or offsite pre-installation. Once the resin is put into service, backwashing is not permitted as this will lead to shortened bed life. This is a uniform grade resin with beads of similar size and will not require backwashing for classification / stratification before use. If it is determined, before startup, that air bubbles or particulate matter are trapped within the bed, then backwashing can be done. In that case, the resin bed should be expanded by 50-70% for 10-15 minutes. Please note that bed expansion increases with higher flow rate and lower water temperature. Avoid loss of resin through the top of the vessel by over expansion of the bed.

BACKWASH EXPANSION OF RESIN BED



Purolite, an Ecolab company, is a leading manufacturer of quality ion exchange, catalyst, adsorbent and specialty high-performance resins with global sales support.



We're ready to solve your process challenges.

For further information on Purolite products and services, visit www.purolite.com or contact us at the addresses below.

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