

PRODUCT DATA SHEET

Purolite® A600MB

Polystyrenic Gel, Type I Strong Base
Anion Resin, Chloride form, Mixed
Bed Grade

PRINCIPAL APPLICATIONS

- Demineralization - Industrial Water
- Silica Removal
- Mixed Bed anion component
- Condensate Polishing

ADVANTAGES

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

SYSTEMS

- Mixed bed demineralizer
- Working 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	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Type I Quaternary Ammonium
Ionic Form	Cl ⁻ form
Total Capacity	1.4 eq/L (30.6 Kgr/ft ³) (Cl ⁻ form)
Moisture Retention	43 - 48 % (Cl ⁻ form)
Particle Size Range	300 - 1200 µm
< 300 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7
Reversible Swelling, Cl ⁻ → OH ⁻ (max.)	25 %
Specific Gravity	1.09
Shipping Weight (approx.)	685 - 720 g/L (42.8 - 45.0 lb/ft ³)
Temperature Limit	100 °C (212.0 °F) (Cl ⁻ form)
Temperature Limit	60 °C (140.0 °F) (OH ⁻ form)



Americas
T +1 610 668 9090
F +1 610 668 8139
americas@purolite.com

EMEA
T +44 1443 229334
F +44 1443 227073
europe@purolite.com

Asia Pacific
T +86 571 876 31382
F +86 571 876 31385
asiapacific@purolite.com

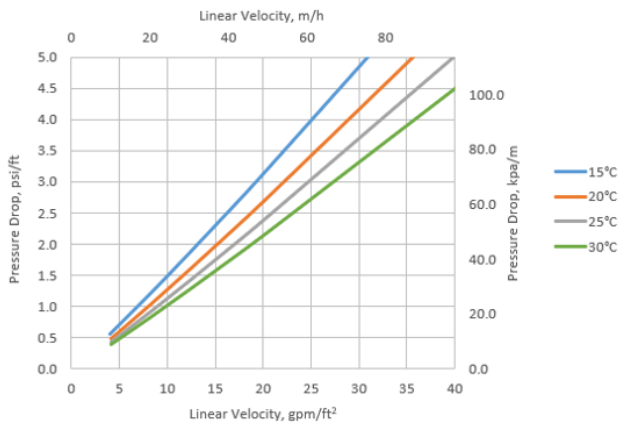
FSU
T +7 495 363 5056
F +7 495 564 8121
fsu@purolite.com

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.

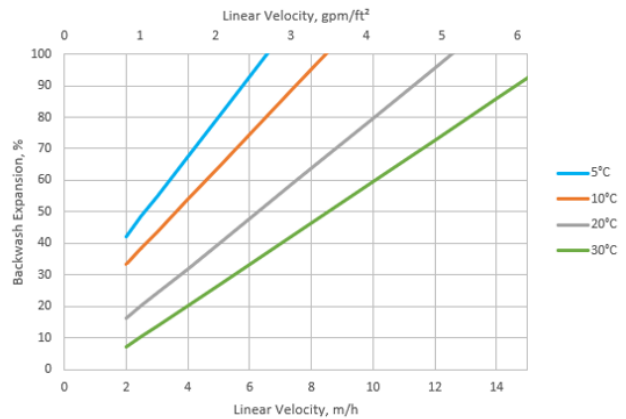
PRESSURE DROP ACROSS RESIN BED



BACKWASH

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.

BACKWASH EXPANSION OF RESIN BED



Americas
 T +1 610 668 9090
 F +1 610 668 8139
 americas@purolite.com

EMEA
 T +44 1443 229334
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Asia Pacific
 T +86 571 876 31382
 F +86 571 876 31385
 asiapacific@purolite.com

FSU
 T +7 495 363 5056
 F +7 495 564 8121
 fsu@purolite.com

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