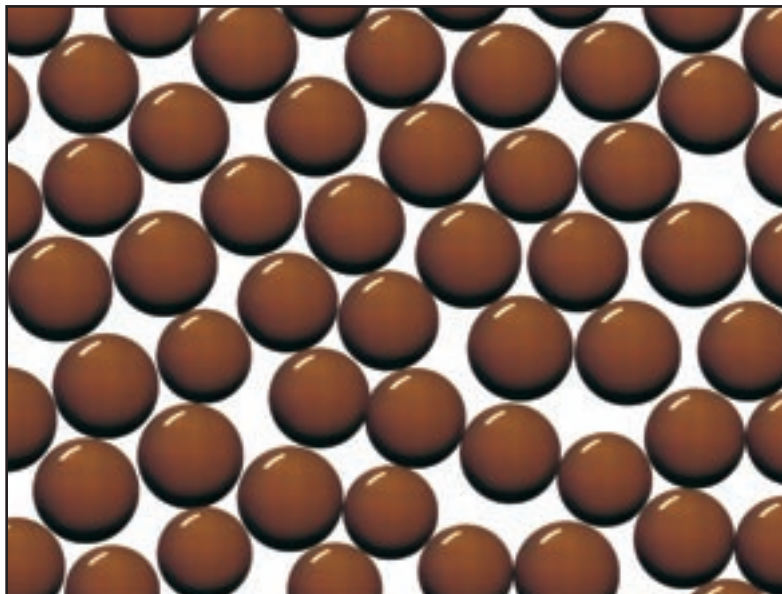


SGC-650 (H)
**SuperGel Strong Acid
Cation Resin**

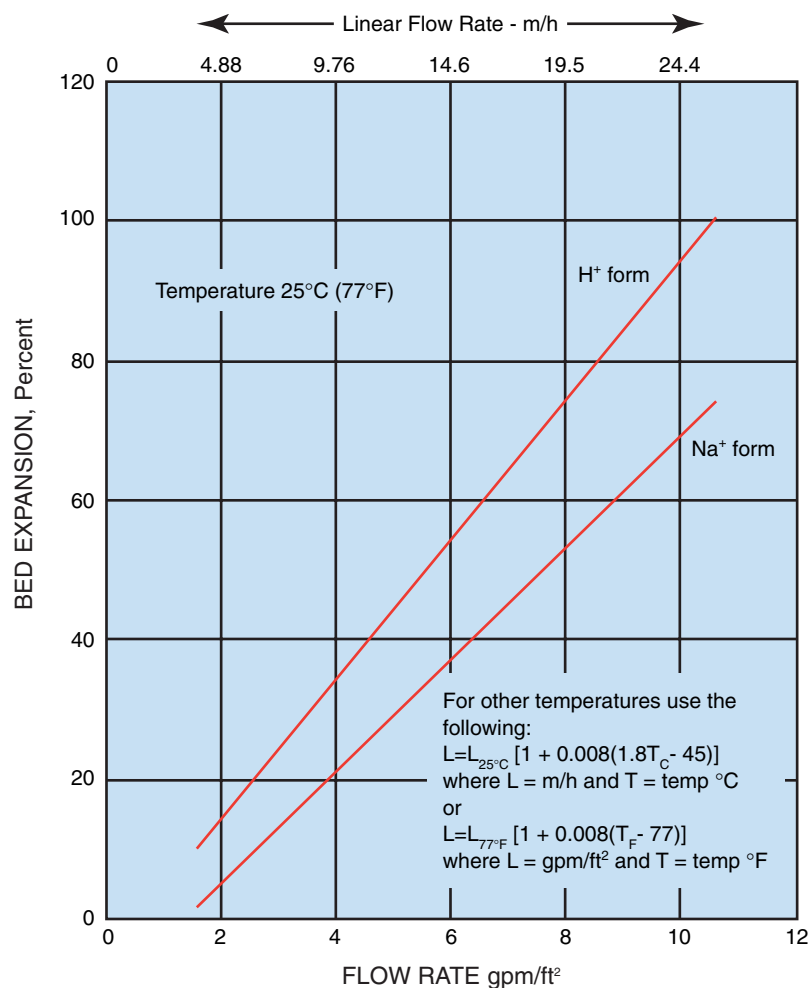
Uniform Size for Condensate
Polishing and Mixed Bed Demineralization

| Typical Physical & Chemical Characteristics | | |
|--|--|---|
| Ionic Form, as shipped | H ⁺ | |
| Polymer Matrix Structure | Crosslinked Styrene-DVB Gel | |
| Functional Groups | Sulfonic acid | |
| Physical Form and Appearance | Hard Dark Spherical beads | |
| Total Exchange Capacity, H ⁺ form | ≥2.0 eq/l min. | 43.6 kgr/ft ³ as CaCO ₃ |
| Moisture Retention H ⁺ form | 46 - 50% | |
| Free Moisture | 1.5% | |
| Crush Strength | Average min. 700 g/bead > 200 g/bead 99% min. | |
| Shipping Weight (approx.) | 770 - 790 g/l (48 lb/ft ³) | |
| Mean Particle Size | 650 ± 50 microns | |
| Uniformity Coefficient | 1.1 | |
| Whole Perfect Beads | 97% min. | |
| Reversible Swelling Na ⁺ → H ⁺ | 8% max. | |
| pH Limits | 0 - 14 | |
| Particle Density H ⁺ form | 1.21 g/ml (approx.) | |



| Recommended Operating Conditions | | |
|--|---------------------|--|
| Operating Temperature: | H ⁺ form | 130°C (265°F) max. |
| Bed Depth, Minimum | | 450 mm / 1.5 ft |
| Flow Rate: | Service/Fast Rinse | 5 - 60 m/h (2 - 24 gpm/ft ²) |
| Service Condensate Polishing | | 40 - 150 m/h (16 - 60 gpm/ft ²) |
| Backwash | | See Backwash Data |
| Co-current regeneration / Displacement Rinse | | 1 - 10 m/h (0.4 - 4 gpm/ft ²) |
| Total Rinse Requirement | | 3 - 6 Bed Volumes |
| Regeneration Type | | 1 - 10% H ₂ SO ₄ or 3 - 8% HCl |

Fig. 1 SGC-650 BACKWASH EXPANSION DATA



All suggestions and recommendations given above concerning the use of Purolite products are based on tests and data believed to be reliable. However, as Purolite cannot control the use of its products by others, no guarantee is either expressed or implied by any such suggestion or recommendation by Purolite nor is any information contained in this leaflet to be construed as a recommendation to infringe any patent currently valid.