

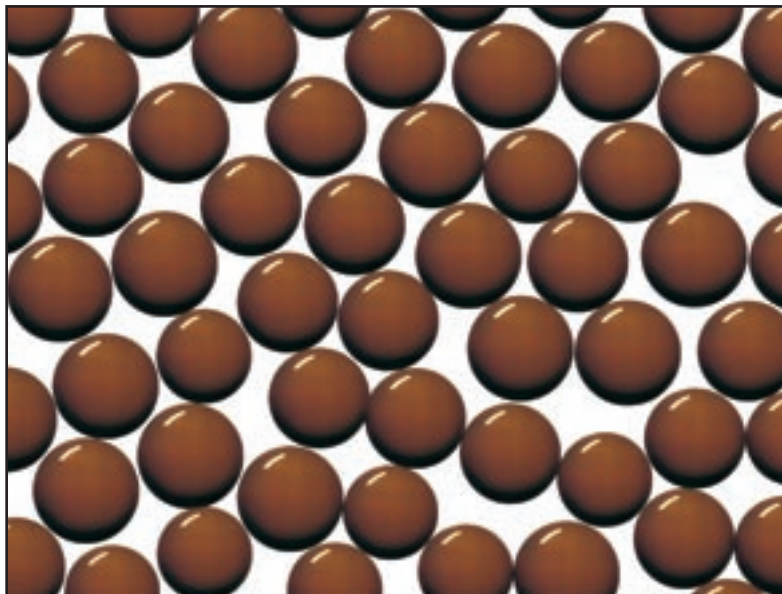
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SGC-650 (H)
**SuperGel Strong Acid
Cation Resin**

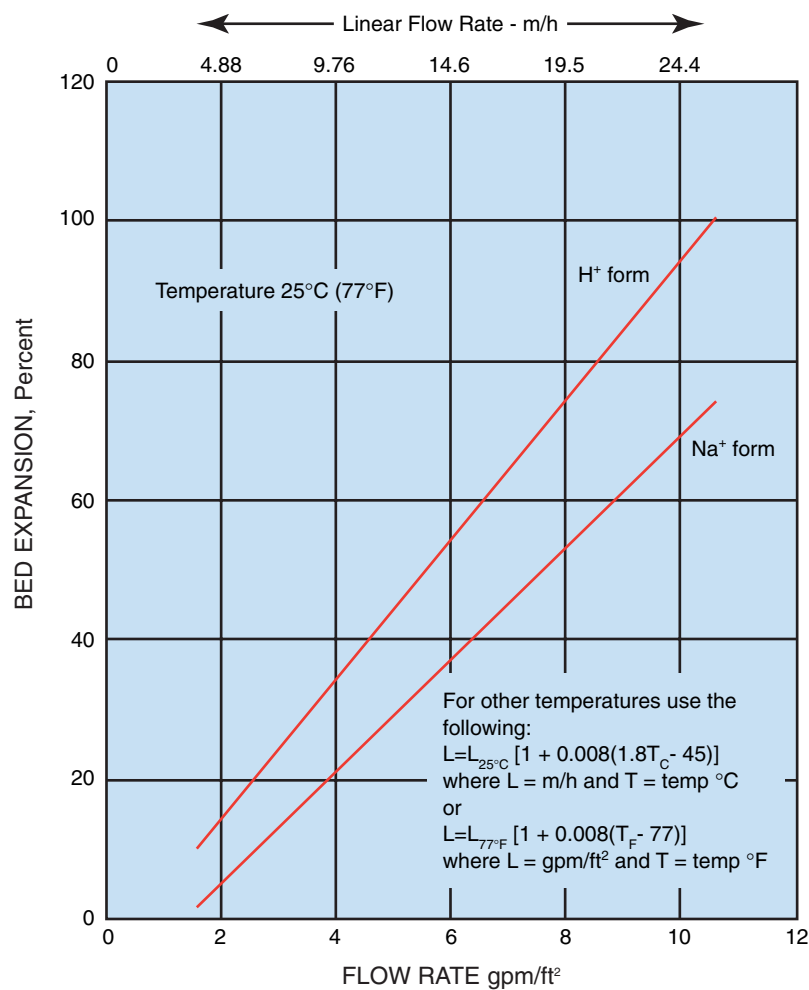
Uniform Size for Condensate
Polishing and Mixed Bed Demineralization

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



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