

LENNTECH

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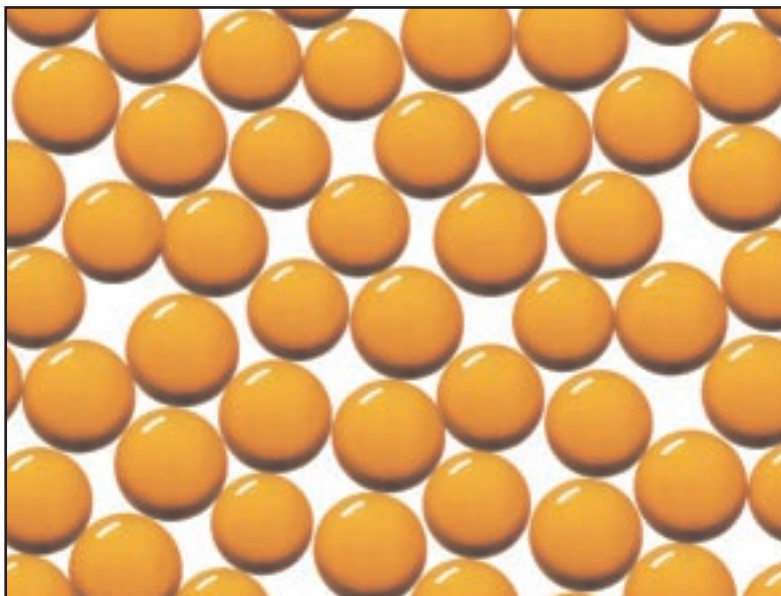
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SGA-550 (OH)

**SuperGel Strong Base
Anion Resin**

Uniform Size for Condensate
Polishing and Mixed Bed Demineralization

Typical Physical & Chemical Characteristics		
Ionic Form, as shipped	OH/CO ₃ ⁻²	
Polymer Matrix Structure	Crosslinked Styrene-DVB Gel	
Functional Groups	Quaternary Amine	
Physical Form and Appearance	Hard Amber Spherical beads	
Total Exchange Capacity OH ⁻ form	≥1.1 eq/l min.	24.0 kgr/ft ³ as CaCO ₃
Moisture Retention OH/CO ₃ ⁻² form	55 - 65%	
Crush Strength	Average min. 700 g/bead > 200 g/bead 99% min.	
Shipping Weight (approx.)	670 - 700 g/l (42 lb/ft ³)	
Mean Particle Size	570 ± 50 microns	
Uniformity Coefficient	1.1	
Whole Perfect Beads	95% min.	
Reversible Swelling Cl ⁻ → OH ⁻	24% max.	
CO ₃ ⁻² → OH ⁻	14% max.	
pH Limits	0 - 14	
Particle Density (approx.)		
CO ₃ ⁻² form	1.09 g/ml	
OH ⁻ form	1.07 g/ml	



Recommended Operating Conditions		
Operating Temperature:	OH ⁻ form	60°C (140°F) max.
	Cl ⁻ form	100°C (212°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		110 - 150 m/h (45 - 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		2 - 5 Bed Volumes
Regeneration Type		4 - 8% NaOH
Regeneration Temperature		50°C (120°F) Max.

Fig. 1 SGA-550 BACKWASH EXPANSION DATA

