



ECOLITE SOFT

STRONG ACID CATION EXCHANGE RESIN SODIUM FORM

Ecolite Soft is a strong acid cation exchange resin in the Na-form with high exchange capacity, chemically, physically, and thermally stable, designed for effective hardness reduction.

APPLICATIONS

- Residential Water Softeners
- Commercial Water Softeners



TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

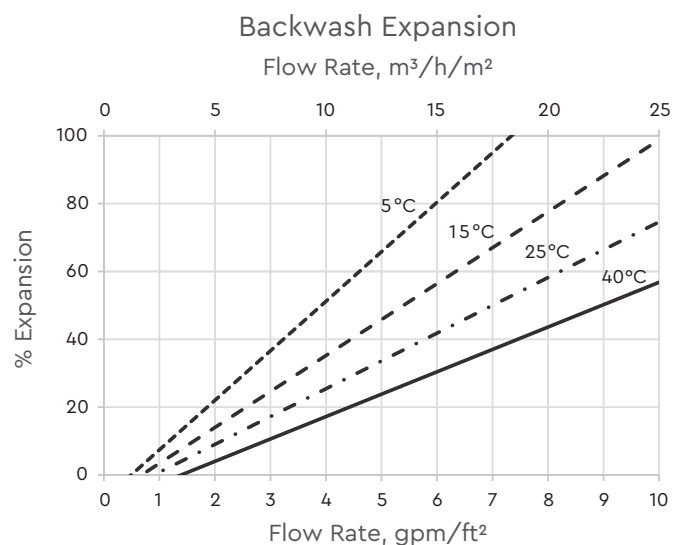
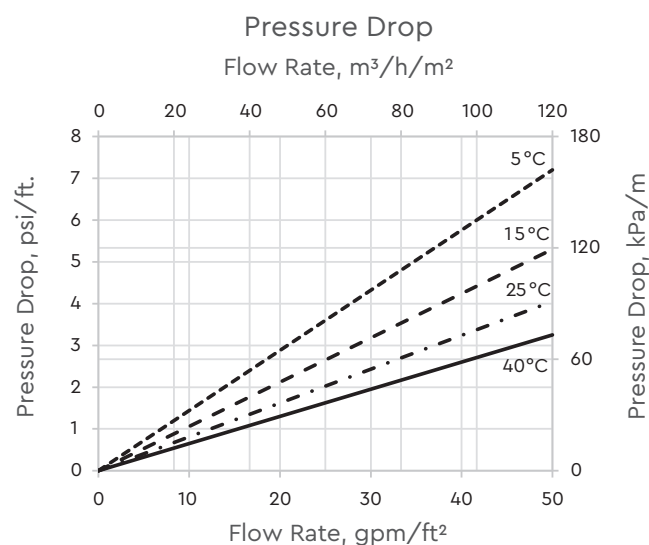
Physical Properties	
Type	Strong acid cation
Polymer Matrix Structure	Polystyrene crosslinked with DVB
Matrix	Gel
Functional Group	Sulfonic acid – SO ₃ H
Physical Form and Appearance	Yellow clear spherical beads
Chemical Properties	
Ionic Form, as shipped	Na ⁺
Total Exchange Capacity, Na ⁺ form	1.9 eq/l min.
Brine pH Range, Na ⁺ form	6–9
Particle Size	
U.S. Standard Screen	16–50 mesh, wet
Particle Size Range	+1.2 mm < 5%
	-0.3 mm < 1%
Uniform Coefficient	1.6 max.
Stability	
Water Retention, Na ⁺ form	45–51%
Whole perfect	92% min.
Swelling Na ⁺ → H ⁺	10% max.
Shipping Weight, Na ⁺ form	770–845 g/l (50 lbs/cu.ft, approx.)
Purity	
Color throw, as packaged	20 APHA

SUGGESTED OPERATING CONDITION

Maximum Temperature, Na ⁺ form	120 °C (248 °F) max.
Minimum Bed Depth	0.6 m (24 inches)
Backwash Expansion	50-75%
Regeneration:	
Regenerant Concentration	8-20% NaCl
Flow Rate	2 – 7 BV/h* (0.25 to 0.90 gpm/cu.ft)
Contact Time	At least 30 Minutes
Displacement Rinse Rate	2 – 7 BV/h* (0.25 to 0.90 gpm/cu.ft)
Displacement Rinse Volume	1.3 – 2.0 L solution per L resin
Fast Rinse Rate	8-40 BV/h (1.0-5.0 gpm/cu.ft)
Fast Rinse Volume	3-10 BV (24-45 gal/cu.ft)
Service Flow Rate	8-40 BV/h (1.0-5.0 gpm/cu.ft)

* 1 BV (Bed Volume) = 1 m³ solution per m³ resin

HYDRAULIC PROPERTIES



PRESSURE DROP

The graph above shows the expected pressure loss per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH

After each cycle the resin bed should be backwashed at a rate that expands the bed 50 to 75 percent. This will remove any foreign matter and reclassify the bed. The graph above shows the expansion characteristics of Ecolite Soft in Na⁺ form.

CODE AND STANDARD PACKAGING

ECOLITES25 – bag 25 L

STORAGE

Store in the original, unopened packaging in a cool, dry area. An indoor storage facility with climate control between 0-40°C should be used for the best results. If subjected to freezing temperatures, the media should be defrosted at room temperature. Do not apply heat. Protect against contamination. Do not ship or store together with toxic, chemical agents, or odorous substances.

GUARANTEED SHELF LIFE

Shelf life in the original manufacturer's packaging:

Industrial Water Treatment – 5 years

Potable Water & Food – 2 years