

Gel type Strong Acid Cationic Resin

Purolite C100E Ag is a premium grade, high purity cation exchange resin which has been designed specifically for the softening industry. It is particularly useful for prevention of bacterial build-up where the softener is operated intermittently. Such bacterial build-up can occur both in the vessel and on the resin. Purolite C100E Ag contains Purolite C150Ag, a special additive of silver with bacteriostatic properties which is added to the base resin C100E. Standard operating conditions apply. The use of this resin is strongly recommended in all situations where there is the possibility of the proliferation of bacteria within the vessel and the ion exchanger. This can occur especially during periods of shut-down, (over-night, at the end of the week, or longer) and is particularly common where the ambient temperature is high. Such conditions create a favorable environment for bacteriological growth, and formerly it has been the practice to treat periodically with sterilizing agents. However such treatments are short-term and are not effective for future periods of shut-down. Favorable conditions for bacteriological growth can be rapidly re-established and generally result in the growth of further colonies. Purolite C100E Ag overcomes this problem by remaining permanently active during successive periods of shut-down. The silver ions which become dispersed throughout the resin bed by slow diffusion remain active as a sterilizing agent at all times when the softener is not in use. The concentration of silver ions liberated during shut-down always remains within limits of acceptability for potable water and at such levels that no taste or odor is imparted to the softened water. Purolite C100E Ag is not especially active during normal operation and should not be relied upon to reduce bacteria which are present in the inlet water.

Basic Features:

Application	Silver Impregnated Resin
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	Na ⁺ /Ag ⁺

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Na ⁺	1.90 eq/l
Total Capacity (min.)	Na ⁺	41.48 kGr/ft ³
Moisture Retention	Na ⁺	46-50 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na ⁺ → H ⁺	10 %
Reversible Swelling (max.)	Ca ₂ ⁺ → Na ⁺	8 %
Specific Gravity		1.27 g/ml
Shipping Weight (approx.)		800-840 g/l

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Shipping Weight (approx.)		50-52.5 lbs/ft ³
Temp Limit	H ⁺	120 °C
Temp Limit	H ⁺	250 °F
Temp Limit	Na ⁺	140 °C
Temp Limit	Na ⁺	285 °F
pH Limits		0-14

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