

Gel Type Strong Acid Cation Exchange Resin

Purofine PFC100 is a specially produced, high quality cation exchange resin that has been designed especially for use in both domestic and industrial softening. It is one of a range of Purofine products manufactured for modern day softening. It offers a number of advantages over the conventional range of softening resins. Operating capacity is significantly greater at standard flow rates, and also relatively greater when flow rates are high, variable or intermittent. It is also useful where high quality water is required while using minimum quantities of regenerant for effective operation.

Basic Features:

Application	Softening of Water - Uniform Particle Size Beads
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	Na ⁺

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Na ⁺	2 eq/l
Total Capacity (min.)	Na ⁺	43.67 kGr/ft ³
Moisture Retention	Na ⁺	44-48 %
Mean Size Typical		0.52-0.62 mm
Uniformity Coefficient (max.)		1.20
Reversible Swelling (max.)	Na ⁺ → H ⁺	8 %
Specific Gravity		1.29 g/ml
Shipping Weight (approx.)		795-820 g/l
Shipping Weight (approx.)		49.7-51.3 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