

#### Gel Type Weak Acid Cation Exchange Resin

Puopack C104 is a specially produced, premium narrow size grading, weak acid cation exchange resin. The functional groups of the carboxylic type give high chemical efficiency in many applications, especially for the removal of bicarbonate alkalinity in water treatment, showing excellent uptake of alkaline earth metals provided that sufficient contact time for exchange is allowed. It is one of a range of Puopack products manufactured for use in modern day water treatment applications. Puopack C104 is especially recommended for use in all counterflow demineralisation systems, including the Puopack system. It has a specially tailored size grading which provides for economical regeneration by counterflow techniques. Puopack is a maximum performance packed bed system which provides a combination of superior engineering principles and improved resins that together optimize water treatment plant performance. For more information please refer to the Puopack Manual or your local Purolite Sales Office.

#### Basic Features:

Application	Dealkalization; Deionization; Softening of Water & Aqueous Organic Solutions - Narrow Size Grading for packed Beds (Puopak Systems)
Polymer Structure	Gel polyacrylic crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Carboxylic Acid
Ionic form as shipped	H <sup>+</sup>

#### Typical Physical and Chemical Characteristics:

Total Capacity (min.)	H <sup>+</sup>	3.80 eq/l
Total Capacity (min.)	H <sup>+</sup>	82.97 kGr/ft <sup>3</sup>
Moisture Retention	H <sup>+</sup>	45-55 %
Mean Size Typical		0.60-0.70 mm
Uniformity Coefficient (max.)		1.20
Reversible Swelling (max.)	H <sup>+</sup> → Na <sup>+</sup>	85 %
Reversible Swelling (max.)	H <sup>+</sup> → Ca <sub>2</sub> <sup>+</sup>	20 %
Specific Gravity		1.18 g/ml
Shipping Weight (approx.)		735-770 g/l
Shipping Weight (approx.)		46-48 lbs/ft <sup>3</sup>
Temp Limit	H <sup>+</sup>	120 °C
Temp Limit	H <sup>+</sup>	250 °F
pH Limits		0-14

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pH Limits                      H<sup>+</sup>                      5-14 (Operating)

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