

Purolite® C100 Gel Strong Acid Cation Resin

Purolite C100 is supplied in the sodium form and it is primarily used in coflow regenerated industrial softening or when regenerated with mineral acids (hydrochloric or sulfuric acids) as the cation resin in demineralization plants used in industrial water treatment. This premium gel product has been optimized to give a high working capacity and good kinetic performance across a wide range of operating conditions while offering excellent chemical and physical stability.

This product is also available in special grades which offer improved performance in both coflow regenerated plant and in a wide range of counterflow regenerated systems. Special grades are also available for use in other cation resin applications. The expected performance is demonstrated in the Purolite PureDesign Program and this product is also available in the hydrogen form as Purolite C100H

TYPICAL PHYSICAL AND CHEMICAL CHARACTERISTICS

BASIC FEATURES:

Application	Softening and Demineralization
Polymer Structure	Gel polystyrene crosslinked with DVB
Appearance	Amber, clear spherical beads
Functional Group	Sulfonic acid
Ionic Form as Shipped	Na ⁺

PRODUCT INFORMATION:

Total Capacity (min.)	2.0 eq/l (43.7 Kgr/ft ³) (Na ⁺ form)
Moisture Retention	44 - 48 % (Na ⁺ form)
Particle Size Range	300 - 1200 µm
<300 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7
Reversible Swelling, Na⁺ → H⁺ (max.)	8 %
Specific Gravity	1.29 (Na ⁺ form)
Shipping Weight (approx.)	800 - 840 g/l (49.9 - 52.4 lb/ft ³)
Temperature Limit	120°C (250 °F)