

CATION Standard and Fine Mesh Resins

CATION Standard and Fine Mesh resin is a highcapacity, conventional gel polystyrene strong acid cation exchange resin designed for use in residential or industrial water softening equipment. Cation resin in sodium form removes hardness ions such as calcium and magnesium by replacing them with sodium. When the resin bed is exhausted the hardness ions begin to pass through the bed. Functionality is returned by regeneration with concentrated sodium or potassium chloride solution. The capacity obtained depends large-

ly on the amount of salt used in the regeneration. Typically 15 lbs of chemical per ft³ is used to obtain maximum capacity of up to 33,000 grains per ft³.

C108DQ-Na resin is rigorously treated before shipping to meet all NSF-44 standards requirements.



This resin has been tested and certified by WQA according to NSF/ANSI 44 for material requirements only

CATION Resin Typical Characteristics

Polymer Structure	Polystyrene 8% cross linked with Divinylbenzene
Physical Form and Appearance	black spherical beads
Whole Bead Count	90% Min.
Functional Groups	Polystyrene sulfonate
Ionic Form (as shipped)	Na+
Shipping Weight, approx.	850 g/l (53 lb./ft.3)
Mesh Size (U.S. Std.)	16-50
Moisture retention, Na+ form	45-50%
Swelling, Na+—>H+	5% max.
Total Capacity in sodium form	1.9 me/ml
pH Range, Stability	0-14

FINE MESH Resin Typical Characteristics

Polymer Structure	Polystyrene 8% cross linked with Divinylbenzene
Physical Form and Appearance	fine mesh amber spherical beads
Whole Bead Count	90% Min.
Functional Groups	Polystyrene sulfonate
Ionic Form (as shipped)	Na+
Shipping Weight, approx.	850 g/l (53 lb./ft.3)
Mesh Size (U.S. Std.)	40-70
Moisture retention, Na+ form	45-50%
Swelling, Na+—>H+	5% max.
Total Capacity in sodium form	1.9 meq/ml
pH Range, Stability	0-14