



# Ion Exchange Resins

Efficient water softening

Model: SCG07



## Description

SCG07 in Sodium, Gel type strong acid cation exchange resin can be used for softening water application.

The particle size is in standard gaussian distribution with 0.315-1.25mm >95%.

QingYun cation exchange resin with high capacity, excellent mechanical strength and good ion exchange kinetics. QingYun resin's durable bead strength facilitates more regeneration cycles.

## Basic feature

- ❖ Application: water softening
- ❖ Matrix: ST-DVB
- ❖ Type: Gel
- ❖ Functional group: sulphonic acid
- ❖ Ionic form: sodium form
- ❖ Appearance: amber Spherical beads
- ❖ Advantage: Good chemical, thermal and physical stability
- ❖ High exchange capacity
- ❖ Max operating temperture up to 120°C
- ❖ pH valve range 0-14

## Application

QingYun SCG07 series resins is used to produce softened water for cooling water treatment, process water, and pretreatment to RO to reduce the hardness and more.

## Physical and Chemical Properties

1	Total exchange capacity (eq/L)	1.9 min(Na <sup>+</sup> form)
2	Moisture retention (%)	45-55(Na <sup>+</sup> form)
3	Particle size range (%)	0.315-1.25 mm
4	Whole beads count (%)	≥95
5	Shipping weight (g/ml)	0.77-0.87(Na <sup>+</sup> form)
6	Specific gravity (g/ml)	1.25-1.29(Na <sup>+</sup> form)
7	Uniformity coefficient	<1.6

## Suggested Operating Conditions

Bed Depth	700-2000mm
Specific Flow rate	5-50BV/hour
Linear velocity	5-45m/hour
Regenerant	NaCl
Regeneration Level	50-250kg NaCl/m <sup>3</sup> resin
Regenerant flow rate	3-8BV/hour
Regenerant concentration	10-15%
Contact time	30min
Slow and Fast Rinse	Min 2BV at the regeneration flow rate

## Performance

The operating capacity of the softening process depends on several factors. The regeneration level is the key factor to affect the performance.

