

GS-410

Chelating Resin

Product Description & Applications

G-ion GS-410 is a chelating resin of macroporous structure, with a polystyrene matrix crosslinked with DVB substituted with weakly acidic aminophosphonic active groups. The chelating aminophosphonic resins have a greater affinity for certain cations, and form more stable complexes with cations of low atomic mass metals than their iminodiacetic resin counterparts. Therefore, G-ion GC-410 is mainly for brine softening, especially for decalcification of brine solution. ty ether (MTBE). It can be supplied both dry and wet form.



Typical Physical & Chemical Characteristics

Polymer Matrix Structure	Macroporous, Styrene / DVB
Functional Group	Imino-phosphoric
Ionic Form, as shipped	Na+
Physical Form And Appearance	Clear Spherical Beads
Puerility	95% min.
Screen Size Range-U.S. Standard Screen	16-50 mesh, wet
Particle Size Range	0.315-1.25mm
Uniformity Coefficient	1.6 max.
Water Retention, Na+ form	43-48%
Swelling Na ⁺ H ⁺ → Ca ²⁺ → Na ⁺	10% max. 5% max.
Shipping Weight, Na+ form	780-880 g/l (51 lbs/cu.ft, approx.)
Total Exchange Capacity, Na+ form	2.0 eq/l min.
pH Range	3-12