

# GCT-200

## Catalyst Resin

### Product Description & Applications

G-ion GCT-200 is a superior macroporous strong-acid catalyst resin. This resin is particularly useful in diffusion-controlled or kinetically-limited reactions. Pure GCT-200 has been qualified and recommended to be used for tertiary alkyl methyl ether (TAME) and methyl tertiary butyl ether (MTBE). It can be supplied both dry and wet form.



### Typical Physical & Chemical Characteristics

Polymer Matrix Structure	Polystyrene crosslinked with DVB
Functional Group	R-(SO <sub>3</sub> )-M <sup>+</sup>
Ionic Form, as shipped	H <sup>+</sup>
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 <sup>+</sup> form	43-48%
Swelling Na <sup>+</sup> H <sup>+</sup> → Ca <sup>2+</sup> → Na <sup>+</sup>	10% max. 5% max.
Shipping Weight, Na <sup>+</sup> form	780-880 g/l (51 lbs/cu.ft, approx.)
Total Exchange Capacity, Na <sup>+</sup> form	2.0 eq/l min.
pH Range	0-14