

Since Cogent TYPE-C Silica columns use a transition metal catalyst in production what is the presence of any trace quantity on the surface of the stationary phase- FAQ

We feel very confident that there is virtually no platinum from the catalyst that is used in production, present in the stationary phase, as determined by both ESCA and chromatographic testing.

We intentionally ran the bonding reaction at high catalyst concentration in order to actually reduce some of the Pt and deposit it on the Surface. This produced a Visual Confirmation as the surface became Gray. Next we ran some Compounds that we knew would interact strongly with Pt and were able to observe longer Retention and most Important very Distinct Peak Tailing.

Finally we determined the %Pt on the surface by ESCA Spectroscopy was close to 1 atom %. Then we went ahead and did our normal process. Of course the surface is very white under those circumstances. The compounds gave very good retention and peak symmetry was virtually 1.0. Then we took the material and analyzed it by ESCA. There was no Pt detected on the surface.

The limit of detection of our system was about 0.01 atom %.



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MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com