

Treatment Process

Restek Performance Coatings are deposited using a patented process in which the item to be treated is heated under vacuum. When the item has been heated to the appropriate temperature, reacting silicon-like gases that form the protective surface are introduced, depositing a durable layer that grows and overlays itself multiple times. The reaction layer penetrates into the treated piece and binds solidly. It is not a line-of-sight coating; it is integrated with the substrate and is, therefore, extremely durable. Treatments apply uniformly, even at corners, holes, and machined ridges.



Gary Barone
Restek Performance
Coatings Business
Development Manager
18+ years of service!

Treated Products for Chromatography

Restek Performance Coating's surface treatments have found many applications worldwide, from analytical laboratories to refineries to semiconductor operations. Makers of scientific instruments have benefited from Restek treatments since the mid 1990s, allowing detection of compounds at the parts-per-trillion level. The chromatographer will realize these benefits when treating sample pathways, from injector to detector. Available from stock for immediate delivery, some treated chromatographic products include:

- MXT® columns (pages 100-107)
- Inlet liners (see the Instrument Supplies section, beginning on page 130)
- Inlet seals (pages 150-151)
- FID jets (see the Instrument Supplies section, beginning on page 130)
- Tubing and fittings (pages 392-396)
- SilcoCan™ air monitoring canisters (pages 402-403)
- Sample cylinders and valves (pages 385, 419)
- Sample loops (page 385)

free sample

www.restekcoatings.com/sample

RESTEK PERFORMANCE COATINGS



Restek Performance Coatings also offers treatments on a custom basis. Specialized items in your laboratory can benefit by having an inert surface. See page 398 for more information.



2002
RPC becomes a separate division of Restek, expanding into a state-of-the-art treatment facility.



2003
Silcosteel®-AC and Silcosteel®-CR developed.



2004
R&D magazine recognizes Silcosteel®-UHV as one of the 100 most technologically significant products of the year.



2004
Silcosteel®-treated components enter orbit on the Cassini-Huygens Mission to Saturn.



2006
Silcosteel® high-performance automotive coatings awarded 2 "Best New Product" awards at SEMA 2006.