

Restek Performance Coatings

Driving Innovation

Restek's patented surface treatments are:

- Corrosion resistant
- Chemically inert
- Barriers for coking and fouling
- Beautiful



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As needs for improved performance of system components increase, surface coatings often are an effective solution. Restek's Performance Coatings Division specializes in innovative surface treatments for steel, stainless steel, alloys, glass, ceramics, and other materials.

The Restek Performance Coatings family of surface treatments includes:

- **Silcosteel®**—A general purpose passivation layer for steel and stainless steel. US Patent 6,511,760.
- **Siltek®**—The ultimate passivation of treated surfaces, from glass to high nickel alloys of steel. US Patent 6,444,326.
- **Silcosteel®-AC**—Dramatically reduces carbon buildup on stainless steel components. US Patent 6,444,326.
- **Silcosteel®-CR**—A corrosion resistant layer that increases the life-time of system components in acidic environments containing hydrochloric acid, nitric acid, or seawater. US Patent 7,070,833.
- **Silcosteel®-UHV**—Greatly reduces outgassing from components of ultra-high vacuum systems. US Patent 7,070,833.
- **Sulfinert®**—A required treatment for metal components when analyzing for parts-per-billion levels of organo-sulfur compounds. US Patent 6,444,326.

Who benefits from using Restek Performance Coatings?

Makers of scientific instruments have used Restek surface treatments since the mid 90s, improving their machines' abilities to detect chemicals at concentrations as low as a few parts per trillion – less than a drop of chemical in an olympic-sized swimming pool of water! Equipment for detecting explosives often is treated with a Restek performance coating to assure that incredibly low levels of dangerous materials can be detected, thus improving safety for all.

Out-of-this-world uses for Restek's treatments have involved air sampling systems in space shuttles and the space station, and equipment on Rover missions to Mars and comet probes. Even the Huygens probe, which landed on Titan, one of Saturn's moons, has Restek-treated components, to ensure reliable performance from delicate sensing systems.

Now, engine manufacturers are evaluating one of our newest performance coatings for reducing carbon buildup in injectors and for increasing the lifetimes of turbocharger housings.

For a free sample, visit
www.restekcoatings.com/sample

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