



Sulfinert™ Coatings

For Sampling, Transfer, and Analysis of Sulfur Compounds to less than 20ppb



Always use Sulfinert™-coated components when peak performance is required for your sulfur analyses.

What is Sulfinert™ Treatment?

The Sulfinert™ coating is the leading passivation technique for the storage and transfer of low-level, organo-sulfur-containing samples.

The Sulfinert™ coating is ideal for use in environmental, petrochemical, polymeric, high- and low-pressure environments. The Sulfinert™ layer is stable in a wide variety of pH ranges. Unlike fused silica coatings which can dissolve in a caustic environment, the Sulfinert™ coating is stable when sampling caustic amines as well as acidic sulfur compounds.

Restek is proud to offer Sulfinert™ coatings—the next generation of metal passivation coatings for low-level sulfur storage and transfer. Restek has been a pioneer in the development and the application of passive coatings since 1987, beginning with the introduction of our Silcosteel® treatment. Recently, new sulfur regulations and low detection limits have created a demand for an even more inert surface, so we created Sulfinert™ coatings.

Features & Benefits

Feature	Benefit
Inert	No adsorption of sulfur compounds.
Durable and flexible	Will not crack or flake.
Stable in a wide pH range	Sample amines and sulfur compounds without compromising compound stability.
Thermally stable	Usable to 600°C.
Non-polymeric	No memory effects as seen with Teflon®-coated parts.
Readily available	Treated tubing and fittings are in stock for immediate delivery.

Commonly Asked Questions

How is Sulfinert™ coating different from Silcosteel® coating?

Sulfinert™ coating has been proven to hold organo-sulfur compounds at lower concentrations than Silcosteel® coating under static sampling conditions. Sulfinert™ coating was developed specifically to sample or transfer organo-sulfur compounds at concentrations to less than 20ppb.

Why does Sulfinert™ coating work so well for sulfur compounds?

The Sulfinert™ layer is applied to the stainless steel surface and is completely inert to organo-sulfur compounds. Typically stainless steel will adsorb or react with sulfur compounds such as hydrogen sulfide and mercaptans. The Sulfinert™ layer will prevent sulfur compounds from contacting the reactive stainless surface.

Why use Sulfinert™ coatings instead of fused silica linings?

The Sulfinert™ coating can be used in a wide variety of pH ranges. Fused silica linings will become active when amines or other basic compounds are sampled because of a chemical reaction with the Si-O bond.

Is custom coating service available?

Restek offers custom service for parts in your sulfur analysis systems such as manifolds and valves. Combining this service with the stock Sulfinert™-treated parts offered by Restek will permit your entire sulfur system to be inert. Contact our technical service department at 800-356-1688 or 814-353-1300, ext. 4, to inquire about our custom Sulfinert™ service.

RESTEK 800-356-1688
814-353-1300
www.restekcorp.com

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for more Information...

For more information on Sulfinert™ coating, request the following literature:

Sulfinert™ brochure (lit. cat.# 59203)

Restek is your free technical literature source!

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Sulfinert™ Sample Cylinders, Valves, and Rupture Discs

Sulfinert™ Sample Cylinders

Size	qty.	cat.#
75cc	ea.	24130
150cc	ea.	24131
300cc	ea.	24132
500cc	ea.	24133
1000cc	ea.	24134
2250cc	ea.	21394

Sulfinert™ Sample Cylinder Valves

Description	qty.	cat.#
1/4" NPT Exit, Kel-F Stem Tip	ea.	24127
1/4" Compression Exit, Kel-F Stem Tip	ea.	24128
1/4" Female NPT Outlet (built-in rupture disc)	ea.	21395

Sulfinert™ Rupture Disc Tee

Description (1/4" NPT connections)	qty.	cat.#
Sulfinert™ Rupture Disc Tee	ea.	21396
Replacement Rupture Disc (not coated)	ea.	24298

Sulfinert™ Gas Sampling Valves and Sample Loops

Sulfinert™ Gas Sampling Valves, 1/16" fittings, 0.40mm port diameter; "W Type" valve

Description	qty.	cat.#
Sulfinert™ Gas Sampling Valve; 4-Port	ea.	20584
Sulfinert™ Gas Sampling Valve; 6-Port	ea.	20585
Sulfinert™ Gas Sampling Valve; 10-Port	ea.	20586

Replacement Rotors

Description	qty.	cat.#
For 4-Port Sulfinert™ Gas Sampling Valve	ea.	20587
For 6-Port Sulfinert™ Gas Sampling Valve	ea.	20588
For 10-Port Sulfinert™ Gas Sampling Valve	ea.	20589

Sulfinert™ Gas Sample Loops, 1/16" fittings, for "W Type" valves

Sizes	qty.	cat.#
5µL	ea.	22840
10µL	ea.	22841
20µL	ea.	22842
25µL	ea.	22843
50µL	ea.	22844
100µL	ea.	22845
250µL	ea.	22846
500µL	ea.	22847
1cc	ea.	22848
2cc	ea.	22849
5cc	ea.	22850

Coiled Sulfinert™ Tubing Price-per-foot by length

Sulfinert™ Welded 304 Grade Stainless Steel Tubing

ID	OD	cat.#
0.011" (0.28mm)	0.022" (0.56mm)	22500
0.021" (0.53mm)	0.029" (0.74mm)	22501
0.010" (0.25mm)	1/16" (1.59mm)	22502
0.020" (0.51mm)	1/16" (1.59mm)	22503
0.030" (0.76mm)	1/16" (1.59mm)	22504
0.040" (1.02mm)	1/16" (1.59mm)	22505
0.085" (2.16mm)	1/8" (3.18mm)*	22506
0.210" (5.33mm)	1/4" (6.35mm)*	22507

Sulfinert™ Seamless 316 Grade Stainless Steel Tubing

ID	OD	cat.#
0.055" (5.33mm)	1/8" (3.18mm)**	22508
0.180" (4.57mm)	1/4" (6.35mm)**	22509

0.020" Wall Thickness **0.035" Wall Thickness

For a complete Sulfinert™ and air monitoring product listing, call and request a copy of the **Restek** chromatography products catalog.

