



Sulfinert™ Coatings

For Sampling, Transfer, and Analysis of Sulfur Compounds at less than 60ppb



Restek is proud to offer Sulfinert coatings - the next generation of metals 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.

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

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
Ready available	Treated fittings are in immediate delivery.

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,

Commonly Asked Questions

How is Sulfinert coating different from Silcosteel coatings?

Sulfinert™ coating has been proven under static sampling conditions to hold organo-sulfur compounds at lower concentrations than Silcosteel® coating. Sulfinert™ coating was developed specifically to sample or transfer organo-sulfur compounds at concentrations below 60ppb.

Why does Sulfinert coating work so well for sulfur compounds

The Sulfinert™ layer is applied onto 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.

814-353-1300

www.restekcorp.com

Lit. Cat.# 59318



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/

Call 800-356-1688 or 814-353-1300, ext. 5,
Fax 814-353-1309
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Sulfinert-Coated Sample Loops

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

Sulfinert-Coated Sample Cylinders

Size	cat.#
75 cc	24130
150cc	24131
300cc	24132
500cc	24133
1000cc	24134

Sulfinert-Coated Fittings

Unions		Reducing Unions	
Size	cat.#	Size	cat.#
1/16"	22520	1/16 to 1/8"	22523
1/8"	22521	1/16 to 1/4"	22524
1/4"	22522	1/8 to 1/4"	22525
Tees		Elbows	
Size	cat.#	Size	cat.#
1/16"	22526	1/16"	22529
1/8"	22527	1/8"	22530
1/4"	22528	1/4"	22531
Zero Dead Volume Unions		Zero Dead Volume Tees	
Size	cat.#	Size	cat.#
1/16"	22532	1/16"	22534
1/8"	22533	1/8"	22535

Sulfinert-Coated Sample Cylinder Valves

Metal Stem Tip		Kel-F Stem Tip	
Size	cat.#	Size	cat.#
1/4" NPT exit	24125	1/4" NPT exit	24127
1/4", comp. exit	24126	1/4" comp. exit	24128

Sulfinert Coated (304 Welded Stainless Steel) Tubing

Cost is per-foot by length. Please call for pricing.

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, 1.02 mm), 1/16" (1.59mm)	22505
0.085" (2.16mm), 1/8" (3.18mm)*	22506
0.310", (5.33 mm), (1/4" (6.35mm))*	22507

*0.020" Wall Thickness

Sulfinert-Coated (316 Seamless Stainless Steel) Tubing

Cost is per-foot by length. Please call for pricing.

ID, OD	cat.#
0.055, (1.40mm), 1/8" (3.18mm)**	22508
0.180" (4.57mm) (6.35mm)**	22509

**0.035" Wall Thickness



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