

INNOVATIVE PRODUCTS

# SilcoCan™ Canisters

The Complete Solution for Ambient Air Monitoring



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## SilcoCan™ Canisters: Product Enhancements

### Improved Design

Ideal for low-level reactive sulfur compounds (1ppb-20ppb)

Feature	Benefit
Siltek® treated.	High inertness—ensures sample stability.
High-purity, 2/3-turn valve with stainless steel diaphragms.	No sample adsorption at the valve, for more accurate results; easy to use.
Vacuum/pressure gauge (optional).	Ascertain internal conditions at a glance.
Variety of sizes.	Meet extensive range of sampling needs.
Can be heated to 250°C.	Superior cleaning, more accurate results.
Siltek® valve available (add suffix "-650" to cat. #).	Completely passive sample pathway ensures sample stability.

### Optional gauge

- Quickly confirm vacuum or pressure inside canister.
- Monitor pressure changes.
- Fully protected by canister frame.
- Can be heated to 90°C during cleaning.

### Newest surface technology

For high inertness, and to ensure sample stability, SilcoCan™ canisters are now deactivated with Restek's latest innovative surface treatment, Siltek®, which chemically bonds a fused silica layer to the metal inner surface of the canister. This layer offers unsurpassed inertness for active compounds, including polar and sulfur-containing molecules, and will not crack, chip, or flake off, despite harsh handling in the field or during transport.



### Enhanced valve and canister bracket

Canister holder and valve bracket protect canister, tube stub, and valve.

### 1/4" tube stub

Allows user to interchange valves.

### Serial-controlled label

For quick, sure identification.

### Dimensions/Weights of SilcoCan™ Air Canisters

Can Volume	Dimensions (height x sphere diameter)		Weight	
1 liter	8.5 x 5.25"	21.6 x 13.3cm	2.5 lbs	1.13kg
1.8 liter	10.25 x 6.25"	26.0 x 15.9cm	3.5 lbs	1.59kg
3 liter	11.5 x 7.25"	29.2 x 18.4cm	4 lbs	1.81kg
6 liter	12.5 x 9.25"	31.8 x 23.5cm	7 lbs	3.18kg
15 liter	17 x 12.25"	43.2 x 31.1cm	13 lbs*	5.90kg

\*16 lbs shipped UPS Air, 22 lbs shipped Fed Ex (USA).



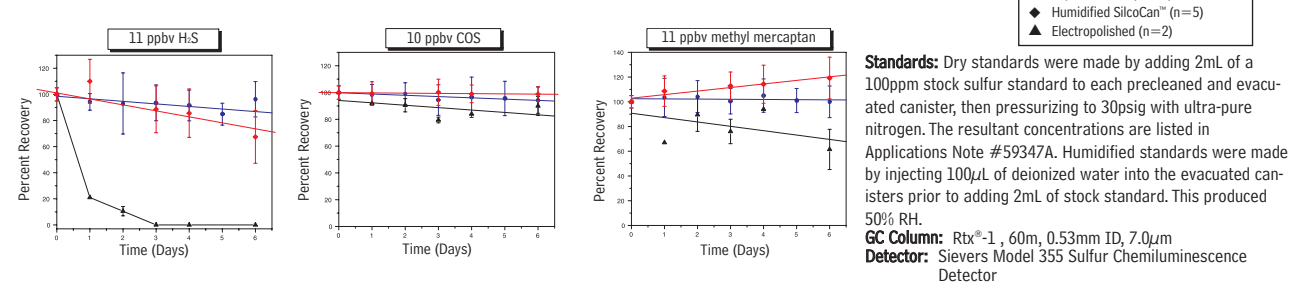
Restek canisters are shipped in reusable boxes with handles for easy carrying, eliminating costly carrying cases.



# SilcoCan™ Canisters: The Complete Monitoring Solution

Whether you are monitoring for TO-14, TO-15, or reactive sulfur compounds, Restek's SilcoCan™ canister is your best choice for stability and inertness. In Tedlar® bags, the stability of low-level (100ppbv) sulfur VOCs is poor, even within 24 hours of sampling.<sup>1</sup> Sulfur compounds react with the metal surface in electropolished canisters, so these canisters are unsuitable for collecting and storing low-level sulfur VOCs.<sup>2</sup> SilcoCan™ air monitoring canisters, which feature a Siltek®-treated surface, offer excellent storage stability for sulfur VOCs at very low levels (1–20ppbv), under dry or humid conditions (Figure 1). The versatility of the SilcoCan™ canister makes it an excellent choice for collecting and storing TO-14 and TO-15 compounds (Figure 2).

**Figure 1** SilcoCan™ canisters effectively store very low levels of organic sulfur compounds.

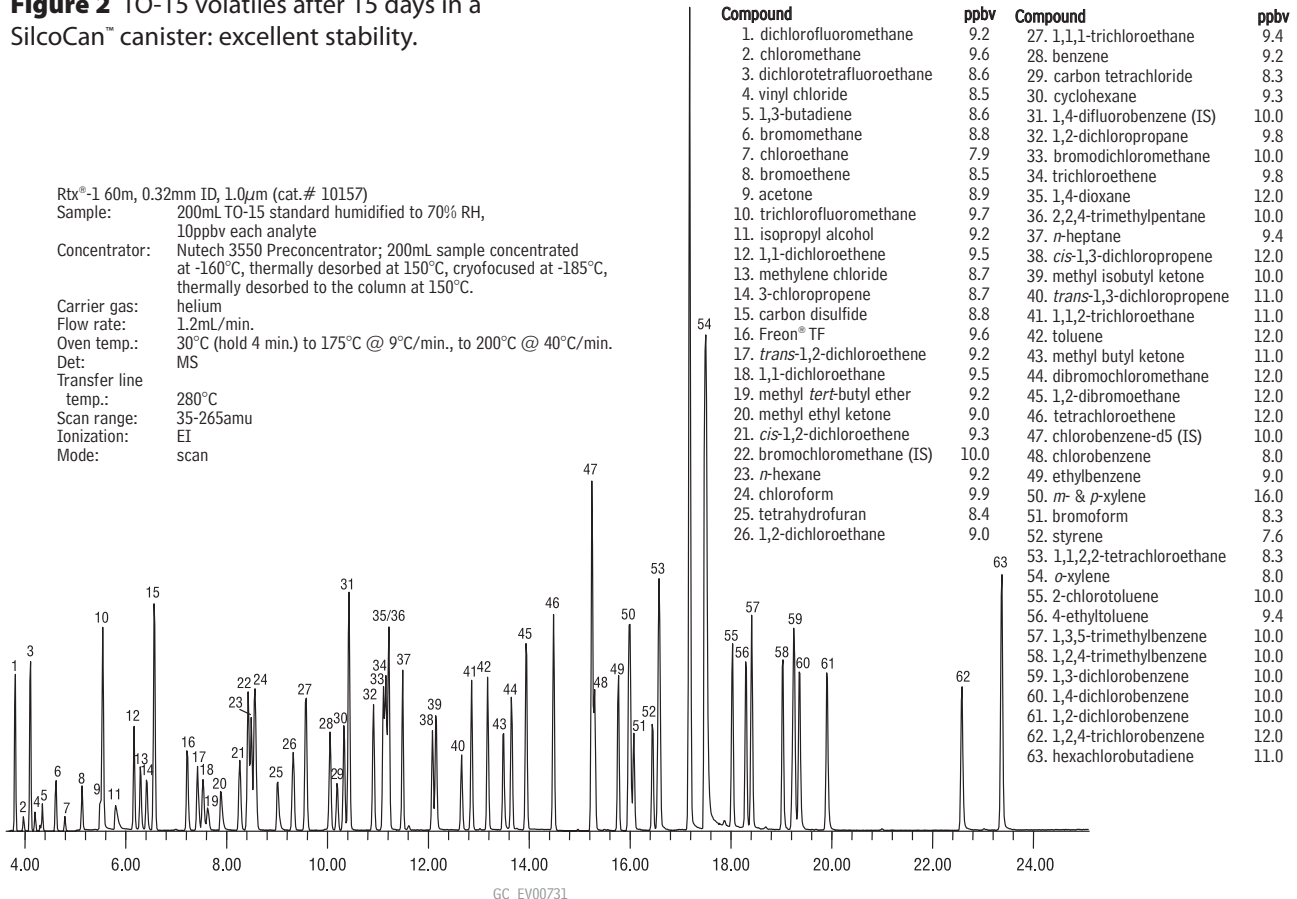


## References

<sup>1</sup>Quang Tran, You-Zhi Tang; *Stability of Reduced Sulfur Compounds in Whole Air Samplers*, 1994 AWMA/EPA International Symposium of Measurement of Toxic and Related Air Pollutants. (not available from Restek)

<sup>2</sup>Steven Hoyt, Vivian Longacre, and Michale Stroupe, *Measurement of Oxygenated Hydrocarbons and Reduced Sulfur Gases by Full Scan GC/MS: EPA TO-14 in Sampling and Analysis of Airborne Pollutants*, Eric Winegar, and Lawrence Keith, editors, CRC Press LLC, 384pp. (1993). (Restek cat.# 20468)

**Figure 2** TO-15 volatiles after 15 days in a SilcoCan™ canister: excellent stability.



## also available

### Miniature Air Sampling Canisters

- Ideal for indoor air, personal, emergency response, or soil gas sampling.
- 400cc or 1000cc in stainless steel or with Sulfinert® treatment, for greatest inertness.
- 1000cc canister is suitable for US EPA Methods TO-14 and TO-15.

### Passive Air Sampling Kits

- Improved design eliminates leaks at the filter.
- Siltek®-treated components, available to ensure a very inert surface.
- Available in six sampling flow ranges.

### Request our catalog, or visit our website.

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Siltek, Sulfinert, Turning  
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Other Trademarks:  
Freon (E.I. duPont Nemours &  
Co, Inc.)

### SilcoCan™ air monitoring canisters feature:

- High quality, metal-to-metal seal, 2/3-turn valve with metal diaphragms.
- Sizes to support a wide range of sampling needs.
- Optional 3-port valve and optional 30" Hg/60psig vacuum/pressure gauge (other ranges available).

### SilcoCan™ canisters also feature:

- Unsurpassed inertness, even for sulfur-containing or brominated compounds.
- For critical applications, order a Siltek® treated valve - add suffix "-650" to the catalog number of the canister.



## SilcoCan™ Canisters

### Siltek® treated - ideal for low-level reactive sulfur compounds (1-20ppb)

Description	qty.	cat.#
<b>1L Volume</b>		
SilcoCan™, 1/4" Valve	ea.	24180
SilcoCan™, 1/4" Siltek® Valve	ea.	24180-650
SilcoCan™ w/ Gauge, 1/4" Valve	ea.	24140
SilcoCan™ w/ Gauge, 1/4" Siltek® Valve	ea.	24140-650
<b>3L Volume</b>		
SilcoCan™, 1/4" Valve	ea.	24181
SilcoCan™, 1/4" Siltek® Valve	ea.	24181-650
SilcoCan™ w/ Gauge, 1/4" Valve	ea.	24141
SilcoCan™ w/ Gauge, 1/4" Siltek® Valve	ea.	24141-650
<b>6L Volume</b>		
SilcoCan™, 1/4" Valve	ea.	24182
SilcoCan™, 1/4" Siltek® Valve	ea.	24182-650
SilcoCan™ w/ Gauge, 1/4" Valve	ea.	24142
SilcoCan™ w/ Gauge, 1/4" Siltek® Valve	ea.	24142-650
<b>15L Volume</b>		
SilcoCan™, 1/4" Valve	ea.	24183
SilcoCan™, 1/4" Siltek® Valve	ea.	24183-650
SilcoCan™ w/ Gauge, 1/4" Valve	ea.	24143
SilcoCan™ w/ Gauge, 1/4" Siltek® Valve	ea.	24143-650
<b>Replacement 1/4" Valves for Air Monitoring Canisters</b>		
1/4" Replacement Valve (2-port)	ea.	24145
1/4" Replacement Valve (3-port)	ea.	24147
1/4" Siltek® Replacement Valve (2-port)	ea.	24144
1/4" Siltek® Replacement Valve (3-port)	ea.	24146

## Air Canister Heating Jacket

- Closely simulates oven environment—heats entire canister, including the valve.
- Two temperature settings, 75°C and 150°C.\*
- Prevents sample condensation, for accurate sub-sampling.
- Easily fits canister up to 6 liters.
- Lightweight; comfortable to the touch when heated.
- Connect up to five Canister Heating Jackets to one 15 amp circuit.

Description	qty.	cat.#
Air Canister Heating Jacket (110 volt)	ea.	24123

\*Not CE certified.

## ordering note

All Restek canisters are originally equipped with these high-quality Parker Hannifin diaphragm valves. Each valve is helium leak-tested to 4 x 10<sup>-6</sup>cc/sec. The all-stainless steel construction eliminates contamination and the valve functions at temperatures from -100°C to 250°C. Compression outlet fitting, indicator plate to display open or closed position, 1/4" inlet and outlet.



Lit. Cat.# 59011A

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