THE NEXT GENERATION OF SKC SAMPLE BAGS

SKC — A Name That Stands for 60 Years of Quality Sampling Equipment and Media

Since 1962, SKC has manufactured quality air sampling equipment and media for occupational and environmental health and safety professionals worldwide. SKC quality products include:

- Sample pumps
- Sorbent tubes
- Sample bags

- Passive samplers
- Size-selective samplers
- Filters

SKC Sample Bags

SKC, the world leader in sampling technologies, produced its first sample bag in the late 1970s. The bag was made of Tedlar[®] film and soon became the classic sample bag for VOCs. Over the last 30 years, SKC Tedlar bags have been the number one choice of professionals. SKC also introduced new high-performance materials — SamplePro[®] FlexFilm, and FlexFoil[®] — the next generation of sample bags. These materials provide new standards of performance for storage stability and background in bag sampling applications.

A Word About Fittings

SKC sample bag fittings are not "offthe-shelf" industrial fittings but are designed specifically for air sampling. SKC quality fittings are offered in a choice of materials including stainless steel, polypropylene, or PTFE that efficiently combine the hose/valve and septum into one lightweight fitting. Dual stainless steel fittings are also available.

SKC Bag Materials and Construction

SKC manufactures its sample bags out of clean top-grade films including SamplePro FlexFilm (SKC proprietary film), FlexFoil and Tedlar. Seams are strong, evenly sealed, and leak tested. SKC Bag Availability & Price SKC offers the largest selection of bag materials and sizes.

SKC — The Future in Sample Bags

SKC has been manufacturing quality sample bags for over 30 years and continues to actively research sample bag materials and applications to ensure that the bag you need is available when you need it. OH professionals rely on SKC.



Target the Right Bag Material for Your Application

Y

 Tedlar Made of classic DuPont Tedlar film for sample integrity and valid data Resists gas permeation both into and out of the bag Classic bag for VOCs referenced in many EPA methods Good stability for some sulphur compounds, including hydrogen sulphide 	Pages 4-5
 SamplePro FlexFilm Low VOC background Good stability for a wide variety of VOCs Good stability for CO, CO₂, methane, and SF₆ Acceptable stability for some sulphur compounds (see table on page 6) Economically priced A high background of hydrogen sulphide and carbonyl sulphide make SamplePro FlexFilm unsuitable for sampling these specific compounds. FlexFilm bags should not be rolled or creased during transport and storage. Store bags flat to avoid damage to FlexFilm material. 	Pages 6-7
 FlexFoil PLUS All the benefits of Standard FlexFoil — PLUS detection and good storage stability for low ppm to high ppb level VOCs Specially cleaned for low VOC and sulphur background 	Pages 8-9
 Standard FlexFoil The only bag that effectively holds hydrogen sulphide for 48 hours! Good stability for low molecular weight compounds such as CO, CO₂, methane, hydrogen, and SF₆ Good 48-hour stability for hydrogen sulphide, hydrogen, carbonyl sulphide, and methyl and ethyl mercaptan Light- and moisture-proof Moderate to high VOC background 	Page 10

Tedlar Air Sample Bags Referenced in Many EPA Methods

Performance Profile

Background Moderately low VOC Stability Good for VOCs and some sulphur compounds Good for CO, CO₂, methane, and SF₆

Thickness 2 mil

Sample Pump Grab Air or Twin Port Pocket Pump, see p. 15

Analysis Multiple

Select from all-in-one polypropylene fitting or dual stainless steel fittings.

> For bag sampling pumps, see page 15.

SKC Tedlar bags made of classic DuPont Tedlar film are an industry standard. The popular SKC allin-one polypropylene fitting makes bags lighter weight and easier to handle. SKC also offers Tedlar bags with dual stainless steel fittings.

 SF_6

- Quality DuPont Tedlar film for sample integrity and valid data
- Good stability for VOCs and some sulphur compounds
- Good stability for carbon monoxide, carbon dioxide, methane, and sulphur hexafluoride
- Choice of fittings

 Single combined polypropylene hose/valve and septum for economy and light weight

2) Dual stainless steel for sampling flexibility

- Available in a variety of sizes
- Bag available for EPA TCLP method
- Custom bags available

Stability of VOCs in Tedlar Bags

Acceptability criteria: > 80% recovery at > 2 days based on EPA Method 0040 as tested in SKC Laboratories

	% Red	covery
Compound	Day 1	Day 2
Acetone	99.0	95.0
Acetonitrile	74.0	66.0
Acrylonitrile	90.0	80.0
Allyl chloride	102.0	94.0
Benzene	104.0	98.0
Bromoethane	99.0	100.0
1,3-Butadiene	99.0	95.0
Butane	98.0	94.0
Butyl acetate	104.0	102.0
Carbon tetrachloride	104.0	102.0
Chloroform	98.0	95.0
1,2-Dichloroethane	100.0	97.0
Dichloropropane	105.0	101.0
Ethyl acetate	98.0	96.0
Ethylene	100.0	102.0
Heptane	100.0	100.0

	% Recovery	
Compound	Day 1	Day 2
Hexane	101.0	101.0
Isooctane	100.0	97.0
lsopropyl alcohol	101.0	99.0
Methyl ethyl ketone	99.0	98.0
Methyl-t-butyl ether	101.0	101.0
Methylene chloride	102.0	97.0
Octane	100.0	97.0
Perchloroethylene	105.0	94.0
Propylene	103.0	104.0
Propylene oxide	96.0	95.0
Tetrahydrofuran	103.0	100.0
Toluene	96.0	92.0
1,1,1-Trichloroethane	104.0	101.0
Trichloroethylene	104.0	103.0
Vinylidene chloride	102.0	100.0
p-Xylene	89.0	83.0

Tedlar Bags with Single Polypropylene Fitting

Maximum Capacity (litre)	Part No.	Pack Size.	Fitting
0.5	232-02	10	
	232-02A	ea	
0.7	232-945A	10	
(Fits Vac-U-Tube 231-945)			
1	232-01	10	
	232-01A	ea	
3	232-03	10	
	232-03A	ea	
5	232-05	10	
	232-05A	ea	
8	232-939	10	
(Fits large Vac-U-Chamber			
231-939)			
10	232-10	10	
25	232-25	5	
50	232-50	5	
75	232-75	5	
100	232-100	3	
Replacement Septa	232-01-RS	10	

Tedlar Bags with Dual Stainless Steel Fittings

Maximum Capacity (litre)	Part No.	Pack Size.	Fitting
1	231-01	10	
	231-01A	ea	
3	231-03	10	
5	231-05	10	
	231-05A	ea	li li
10	231-10	10	
25	231-25	5	
50	231-50	5	
75	231-75	5	Carlo Carlo
100	231-100	3	
Replacement Septa	231-9-04	10	

Tedlar Bag with Single Stainless Steel Septum Fitting (attaches to ZHE)

Description	Part No.	Pack Size.	Fitting
Tedlar Sample Bag, 1 litre, with single stainless steel septum fitting suitable for attaching directly to Zero Headspace Extractor (ZHE) with stainless steel adapter, required	231-01-TCLP	10	
Stainless Steel Adapter, for use with ZHE, required	231-01-ZHE	ea	

Tech Tips

Q: Can Tedlar Bags be used at elevated temperatures?

A: SKC Tedlar film has a melting point of 374°F (190°C). However, the bag fitting dictates the maximum operating temperature of the sample bag.

Tedlar bags with stainless steel fittings have a maximum operating temperature of 225°F (107.2°C) based on the temperature tolerances of this fitting's 0-rings.

Tedlar bags with polypropylene fittings have a maximum operating temperature of 200°F (93.3°C) based on the temperature tolerance of the fitting material. Strain on the fitting should be avoided at the maximum temperature.

More Information

SKC Bag Stability Report – http://www.skcltd.com/ index.php/knowledgelibrary/reports-andstudies

SamplePro FlexFilm Air Sample Bags

Economical Alternative for VOCs

Select from all-in-one polypropylene fitting or dual stainless steel fittings.

Performance Profile

Background Low VOC (lower total VOC than Tedlar)

Stability Good for VOC, CO, CO₂, methane, and SF₆ Acceptable for some sulphur compounds

Thickness 3 mil

Sample Pump Grab Air or Twin Port Pocket Pump, see p.15 Also see the Vac-U-Chamber on p.14

> For bag sampling pumps, see page 15.

SKC SamplePro FlexFilm bags are constructed of 3-mil SKC proprietary material ideally suited for collecting air samples of VOCs. Manufactured exclusively for SKC, FlexFilm features lower total VOC background than Tedlar and shows the same sample stability for VOCs as seen with Tedlar. When combined with SKC quality fittings, the result is an economical sample bag with lower background levels and superior storage stability for collected compounds.

- Cost effective alternative to Tedlar for performance
- Lower total VOC background than Tedlar
- Superior storage stability for organic vapors See 2-day storage stability data below
- Minimal adsorption
- Choice of fittings

 Single combined polypropylene hose/valve and septum for economy and light weight
 Dual stainless steel for sampling flexibility
- Stocked in a variety of sizes
- Custom bags available

VOCs

Storage Stability of Collected Compounds in FlexFilm Bags*

Acceptability criteria: ≥ 80% recovery at ≥ 2 days based on EPA Method 0040 as tested in SKC Laboratories

Laboratories	% Rec	covery
Compound	Day 1	Day 2
Acetone	96.7	88.9
Acetonitrile	69.0	55.1
Acrylonitrile	76.1	62.2
Allyl chloride	95.6	91.9
Ammonia	18.0	10.0
Benzene	96.0	95.2
Bromoethane	95.2	90.9
1,3-Butadiene	80.0	86.0
Butane	91.0	96.0
Butyl acetate	85.1	91.8
n-Butyl mercaptan	69.5	50.0
tert-Butyl mercaptan	92.5	92.5
Carbon dioxide	100.0	90.0
Carbon disulphide	80.0	74.1
Carbon monoxide	100.0	100.0
Carbon tetrachloride	101.0	94.3
Carbonyl sulphide	126.0‡	135.0‡
Chloroform	98.7	95.9
1,2-Dichloroethane	91.5	82.9
Dichloropropane	86.2	76.7
Diethyl disulphide	68.2	54.1
Diethyl sulphide	88.2	83.9
Dimethyl disulphide	77.3	69.3
Dimethyl sulphide	90.9	89.8
2,5-Dimethylthiophene	68.6	54.7
Ethyl acetate	94.9	95.4
Ethyl mercaptan	81.3	76.9
Ethyl methyl sulphide	88.2	83.9
Ethylene	104.0	100.0
2-Ethylthiophene	72.2	60.0
Heptane	96.7	106.0
Hexane	99.0	98.9
Hydrogen sulphide	7.8‡	2.2 [‡]
Isobutyl mercaptan	81.3	69.2
lsooctane	100.0	97.9
Isopropyl alcohol	99.1	91.7
lsopropyl mercaptan	89.3	86.0
Methane	95.8	92.5
Methyl ethyl ketone		
(2-Butanone)	96.2	95.8
Methyl mercaptan	78.9‡	67.8‡
Methyl tert-butyl ether	99.2	99.1
Methylene chloride	93.2	87.2
3-Methylthiophene	75.9	65.5
Octane	104.0	98.7
Perchloroethylene	94.8	84.9
Propylene	100.0	99.0
Propylene oxide	93.3	90.1
n-Propyl mercaptan	80.0	70.0
Sulphur hexafluoride	104.0	99.8
Tetrahydrofuran	96.7	93.6
Tetrahydrothiophene	79.6	70.5
Thiophene	81.6	75.9
Toluene	107.0	92.9
1,1,1-Trichloroethane	94.9	93.6
Trichloroethylene	92.4	82.9
Vinylidene chloride	95.6	91.8
p-Xylene	85.9	82.7
		A

* Bags stored at ambient temperatures during study

‡ Blank corrected

SamplePro FlexFilm as alternative to Tedlar

An AIHce 2010 poster showed SKC SamplePro FlexFilm bags to be an ideal alternative to Tedlar.

- Fourteen compounds tested in FlexFilm showed recoveries of > 80% after two days of ambient storage; the same compounds showed very similar results in Tedlar (see page 4).
- A side-by-side Tedlar and FlexFilm background study showed FlexFilm has three times lower VOC background than Tedlar.
- FlexFilm exhibits higher levels of hydrogen sulphide and carbonyl sulphide background than Tedlar.

FlexFilm Bags with Single Polypropylene Fitting

Maximum Capacity (litre)	Part No.	Pack Size.	Fitting
0.5	236-006	10	
1	236-001	10	
	236-001A	ea	
3	236-002	10	
	236-002A	ea	
5	236-005	10	
	236-005A	ea	
8 (Fits large Vac-U- Chamber 231-939)	236-004	10	1.000
10	236-003	10	
	236-003A	ea	
25	236-007	5	
40	236-040	5	
80	236-080	5	
100	236-100	3	
Replacement Septa	236-01-RS	10	

FlexFilm Bags with Dual Stainless Steel Fittings

Maximum Capacity (litre)	Part No.	Pack Size.	Fitting
0.5	237-02	10	
	237-02A	ea	
1	237-01	10	
	237-01A	ea	
3	237-03	10	m
	237-03A	ea	
5	237-05	10	
	237-05A	ea	
10	237-08	10	
25	237-25	5	
40	237-40	5	
80	237-80	5]
100	237-100	3	
Replacement Septa	231-9-04	10	

The Unique Properties of SamplePro FlexFilm

Water Vapour Transmission:	13.5 g/m² x d
Oxygen Permeability:	52.5 cc/m ² x d
Carbon Dioxide Permeability:	171 cc/m² x dv
Material Thickness:	3 mil
Temperature Resistance:	140°F (60°C)

Tech Tips

- Bags are designed for single use only.
- Do not use FlexFilm bags at temperatures above 140°F (60°C).
- In addition to bag material temperature tolerance, maximum bag operating temperature can also depend on O-ring or fitting temperature tolerances. Check individual bag operating instructions for maximum operating temperature. See page 11 for related Tech Tip.
- Store bags flat. Do not roll or crease bags during storage.
- Do not ship bags by air unless the cargo cabin is pressurised. Check appropriate regulations.
- Do not fill bags > 80%.

More Information

SKC Bag Stability Report – http://www.skcltd.com/ index.php/knowledgelibrary/reports-andstudies

FlexFoil PLUS Gas Sample Bags Specially Cleaned for Low ppm to High ppb Level VOCs

polypropylene or stainless steel fitting or breath gas fitting.

Performance Profile

Background Low VOC and sulphur (specially cleaned)

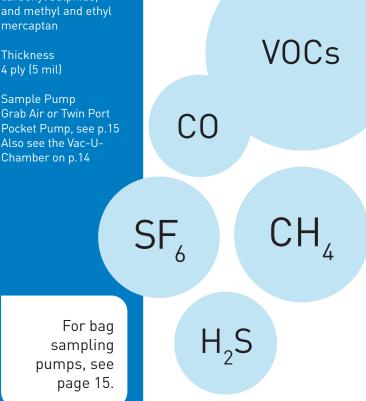
Stability

Good for low ppm to high ppb level VOCs Good for CO, CO₂, methane, hydrogen, and SF₆ Good 48-hour stability for hydrogen sulphide, hydrogen, carbonyl sulphide, and methyl and ethyl mercaptan

Thickness 4 ply (5 mil)

Grab Air or Twin Port Pocket Pump, see p.15 Also see the Vac-U-

- All the benefits of standard FlexFoil PLUS detection and good storage stability for low ppm to high ppb level VOCs
- Low VOC and sulphur backgrounds
- Good stability for low molecular weight compounds such as CO, CO_2 , methane, hydrogen, and SF₆
- Good 48-hour stability for hydrogen sulphide, carbonyl sulphide, and methyl and ethyl mercaptan
- Strong, flexible, evenly sealed 4-ply (5mil) material
- Light and moisture-proof Excellent for light-sensitive compunds
- Choice of all-in-one polypropylene or stainless steel hose/valve and septum fittings
- Stocked in a variety of sizes; custom bags available



Storage Stability of Collected Compounds in FlexFoil PLUS Bags§

Acceptability criteria: ≥ 80% recovery at ≥ 2 days based on EPA Method 0040 as tested in **SKC** Laboratories

	% Recovery		
Compound	Day 1	Day 2	
Acetone	99.0	97.8	
Acetonitrile	94.2	84.5	
Acrylonitrile	98.2	99.5	
Allyl chloride	98.5	95.6	
Ammonia	16.0	8.0	
Benzene	93.1	98.2	
Bromoethane	95.2	98.0	
1,3-Butadiene	89.0	92.0	
Butane	86.0	88.0	
Butyl acetate	88.1	88.7	
n-Butyl mercaptan‡	47.8	50.0	
tert-Butyl mercaptan	91.4	98.8	
Carbon dioxide	99.0	100.0	
Carbon disulphide‡	58.9	54.4	
Carbon monoxide	100.0	100.0	
Carbon tetrachloride	99.1	95.0	
Carbonyl sulphide	98.9*	108.0*	
Chloroform	96.2	97.1	
1,2-Dichloroethane	92.0	88.0	
Dichloropropane	99.3	98.5	
Diethyl disulphide [‡]	11.1	12.2	
Diethyl sulphide [‡]	25.6	13.3	
Dimethyl disulphide‡	42.2	44.4	
Dimethyl sulphide	81.4	74.4	
2,5-Dimethylthiophene [‡]	14.0	15.5	
Ethyl acetate	100.0	97.3	
Ethyl mercaptan	92.1	97.8	
Ethyl methyl sulphide [‡]	52.2	40.0	
Ethylene	108.0	94.0	
2-Ethylthiophene [‡]	17.8	17.8	
Heptane	99.2	101.0	
Hexane Hydrogen sulphide	95.8 104.0	99.4 102.0	
Isobutyl mercaptan [‡]	62.2	64.4	
Isooctane	87.5	86.1	
Isopropyl alcohol	101.0	100.0	
Isopropyl mercaptan	92.9	98.8	
Methane	99.0	100.0	
Methyl ethyl ketone	77.0	100.0	
(2-Butanone)	0/ 5	101.0	
	96.5	101.0	
Methyl mercaptan Methylene chloride	93.4	102.0	
3-Methylthiophene [‡]	98.7 32.0	101.0 32.0	
Methyl tert-butyl ether			
Octane	92.0 98.4	88.0 93.1	
Perchloroethylene	85.3	82.4	
n-Propyl mercaptan	77.8	82.2	
Propylene	00 <i>(</i>	07.0	
Propylene oxide	98.6	97.9	
Sulphur hexafluoride	98.1	93.2	
Tetrahydrofuran	101.0	99.3	
Tetrahydrothiophene [‡]	0.0	0.0	
Thiophene [‡]	61.1	62.2	
Toluene	90.5	91.5	
1,1,1-Trichloroethane	86.5	84.6	
Trichloroethylene	93.7	94.6	
Vinylidene chloride	98.3	99.5	
p-Xylene	97.0	89.0	
1 7			

‡ Sample degradation begins within 3 hours; compound should

be analysed as soon as possible or use alternative method.

Polypropylene and stainless steel fittings were used in this study.

§ Blank corrected

FlexFoil PLUS Bags with Single Polypropylene Fitting

Maximum Capacity (litre)	Part No.	Pack Size.	Fitting
1	252-01/252-01A	10	
		ea	
3	252-03/252-03A	10	
		ea	
5	252-05	10	
8 (Fits large Vac-U-Chamber 231-939)	252-08	10	C. Martine
10	252-10	10	
25	252-25	5	
50	252-50	5	
Replacement Septa	236-01-RS	10	

FlexFoil PLUS Bags with Single Stainless Steel Fitting

Maximum Capacity (litre)	Part No.	Pack Size.	Fitting
1	253-01	10	
	253-01A	ea	
3	253-03	10	
	253-03A	ea	
5	253-05	10	
10	253-10	10	
25	253-25	5	
50	253-50	5	
Replacement Septa	233-01-RS	10	



About

FlexFoil Bag Applications

- Biogas and landfill gas (LFG) sampling
- CO2 OSHA Method ID-172
- CO2 NIOSH 6603
- CO OSHA ID-210#
- Sulphur compounds
- VOCs* (FlexFoil PLUS only)
- Pollution level monitoring
- Site sampling/mobile surveys
- Breath analysis* (FlexFoil PLUS only)
- Calibration gas transfer
- Calibration mixtures
- Leak/spill exposure assessment
- Indoor air studies (CO, CO2, SF6)

Method specifies 5-layer foil bags. SKC 4-ply FlexFoil PLUS bags hold 100 ppm CO for 5 days without loss.

* Use FlexFoil PLUS sample bags when sampling VOCs. FlexFoil PLUS is specially cleaned for low-level (ppb) VOC detection and ideal for breath-gas analysis.

Select a Fitting

SKC sample bags are stocked with a choice of fittings to meet your applications. SKC bag fittings are not "off-the-shelf" industrial fittings but are designed specifically for air sampling. Choose from SKC quality fittings including dual stainless steel or all-in-one single polypropylene, stainless steel, or PTFE fittings that combine the hose/valve and septum into one lightweight fitting.



More Information

SKC Bag Stability Report – http://www.skcltd.com/ index.php/knowledgelibrary/reports-andstudies

Standard FlexFoil Gas Sample Bags Economical Bag for Sulphur Compounds and Low Molecular Weight Gases



Select from all-in-one polypropylene or stainless steel fitting.

Performance Profile

Background Moderate to high VOC and low sulphur

Stability Good for CO, CO₂, methane, hydrogen, and SF₆ Good 48-hour stability for hydrogen sulphide, hydrogen, carbonyl sulphide, and methyl and ethyl mercaptan

Thickness 4 ply (5 mil)

Sample Pump Grab Air or Twin Port Pocket Pump, see p.15

H_2S

More Information

SKC Bag Stability Report – http://www.skcltd. com/index.php/ knowledge-library/ reports-and-studies SKC Standard FlexFoil sample bags are the economical choice for sampling sulphur compounds and low molecular weight gases. The strong, evenly-sealed 4-ply (5-mil) material even retains hydrogen sulphide for 48 hours! SKC's quality all-in-one hose/valve and septum fitting design is available in polypropylene or stainless steel for Standard FlexFoil sample bags.

- Effectively retains hydrogen sulphide for 48 hours!
- Good stability for low molecular weight compounds such as CO, $\text{CO}_{2},$ methane, hydrogen, and SF_{δ}
- Good 48-hour stability for hydrogen sulphide, carbonyl sulphide, and methyl and ethyl mercaptan
- Strong, flexible, evenly sealed 4-ply (5-mil) material
- Light and moisture-proof Excellent for light-sensitive compunds
- Choice of all-in-one polypropylene or stainless steel hose/valve and septum fittings
- Stocked in a variety of sizes; custom bags available

Standard FlexFoil Bags with Single Polypropylene Fitting

Maximum Capacity (litre)	Part No.	Pack Size.	Fitting
1	262-01	10	, itting
I	252-01A	ea	
3	262-03	10	
	262-03A	ea	
5	262-05	10	
8 (Fits large Vac-U-Chamber 231-939)	262-08	10	
10	262-10	10	
25	262-25	5	
50	262-50	5	
Replacement Septa	236-01-RS	10	

Standard FlexFoil Bags with Single Stainless Steel Fitting

Maximum Capacity (litre)	Part No.	Pack Size.	Fitting
1	263-01	10	
	263-01A	ea	
3	263-03	10	1
	263-03A	ea	
5	263-05	10	
10	263-10	10	
25	263-25	5	
50	263-50	5	
Replacement Septa	233-01-RS	10	

AIR SAMPLE BAGS MADE TO YOUR SPECIFICATIONS

Need a special bag size?

SKC provides single or multiple-cell sample bags in the size you need.

Need a specific combination of fitting and bag material?

SKC offers a wide choice of fittings and bag materials that can be combined to your specifications.

Fittings:

- Stainless Steel
- Polypropylene
- Nickel-plated brass
- PTFE
- PVC

Sample bag materials:

- SamplePro FlexFilm (3 mil)
- FluoroFilm FEP (2 mil)
- 4-ply FlexFoil Standard or PLUS (5 mil)
- Tedlar (2 mil)

SKC custom sample bags are proven performers!



Indoor air



Biogas/landfill gas sampling



Soil vapour



Beverage testing

Contact SKC today for your custom sample bags! www.skcltd.com

Vac-U-Tube For Quick Bag Samples Without a Pump

The Vac-U-Tube acrylic syringe with removable face plate allows a specially designed 0.7-litre sample bag to be placed inside. The bag is attached to the face plate that is then secured to the syringe. Sample by pulling the plunger or purge by pushing the plunger. The Vac-U-Tube can be used for headspace soil gas sampling.

- No electronic pump required
- Setup takes less than 20 seconds
- Convenient for testing monitoring wells

Description	Part No.	Pack Size.
Vac-U-Tube includes Vac-U-Tube and carry		
case, requires either sample bag below (not included)	231-945	ea
Vac-U-Tube Bag, 0.7 litre Tedlar	232-945A	10
SamplePro FlexFilm	236-945A	10



PTFE Tubing Inert Tubing for Bag Sampling

Chemically inert SKC PTFE tubing is ideal for bag sampling to prevent sample loss through adsorption to the tubing's inner surface. SKC offers PTFE tubing with different diameters to fit over or inside bag fittings.

- Heat and corrosion resistant
- Chemically inert
- Strong

		/
PTFE Tubing	Part No.	Length
Fits over all SKC bag fittings and Grab Air pump fittings		-
3/16-inch ID, 1/4-inch OD	231-9-23	3m
Fits inside bag fitting		
1/16-inch ID, 1/8-inch OD	231-9-21	3m
Fits Vac-U-Chamber sample inlet and 222 pump fittings	231-937	3m
1/4-inch ID, 5/16-inch OD	231-924	15m
Twin Port Pocket Pump Tubing Adapter Kit		
Includes two lengths of silicone tubing: 1/8-inch ID, 1/4-inch OD		
for bag fitting and 3/16-inch ID, 3/8-inch OD for pump fitting; use		
with PTFE tubing (Part No. 231-9-23 above)	231-926	



Tech Tips

• Use only PTFE tubing for bag sampling to prevent sample loss through adsorption to the tubing's inner surface.

Vac-U-Chamber Negative Pressure Lung-style Sampler

PTFE

Sample Line

Pitot Manon

Ball

Check

- Fills air sample bags directly Designed to contain SKC sample bags
- Rugged and airtight Will not collapse under vacuum
- Multiple sizes available Large for sample volumes up to 8 litres Small for sample volumes up to 1 litre Larger sizes available for EPA Method 0040
- Protects from contamination Sample does not pass through the pump Sample contacts only inert tubing and ba
- Sample line extends from contaminant, source through case to bag

Applications

Filte

(Glass Wo

- U.S. EPA Method 18 (VOCs industrial sources)
- U.S. EPA Method 0040 (POHCs stationary sources)
- Soil gas/vapour sampling U.S. EPA SOP #2042 ASTM D5314-92 (2006)
- Indoor air remediation system monitoring petroleum constituents (U.S. EPA SOPs #2102, 2103, and 2104)
- Groundwater testing
- Stack sampling
- Ventilation studies
- Hazardous Material testing

Large Vac-U-Chamber

Descriptior					
	U	les	cri	pti	or

Rigid Leak-Proof

Male Quick

Description	Part No.
Complete Vac-U-Chamber Kit includes 224-PCMTX8 sample pump, single charger (Part No: 223-203A) with cable, large Vac-U-Chamber,	
and 10 SamplePro Tedlar sample bags (Part No. 232-10) 100-240 V	224-4115
Large Vac-U-Chamber only with stainless steel fittings (supplied with-	
out pump), suitable for use with SKC 8-litre sample bags below	231-939
8-litre Sample Bag with single polypropylene fitting, for use	
with large Vac-U-Čhamber (Part No. 232-10), pk/10	232-939

Charcoal

Nube

Integrated Bag Sampling Train

Small Vac-U-Chamber

Description	Part No.
Complete Vac-U-Chamber Kit includes 224-PCMTX8 sample pump, single charger (Part No: 223-203A), small Vac-U-Chamber, and 10 Tedlar	
sample bags (Part No. 232-10) 100-240 V	224-4124
Small Vac-U-Chamber only with polypropylene fittings (supplied without	
pump), suitable for use with 1-litre sample bags below	231-940
1-litre Sample Bag with single polypropylene fitting, for use with small	
Vac-U-Chamber (Part No. 231-940), pk/10	232-01

Larger sizes are available; contact SKC!

Twin Port Pocket Pump - 20 to 225 ml/min Programmable Sample Bag Pump

The twin port Pocket Pump® is ideal for bag sampling and other applications. Operate Pocket Pump from the simple 3-button integral keypad for quick grab samples. Or, program Pocket Pump from a PC using DataTrac® for Pocket Pump Software. Pocket Pump can be programmed for delayed start and timed runs.

- 12-hour run time with rechargeable NiMH battery
- Constant flows from 20 to 225 ml/min suitable for other applications
- Simple 3-button operation or program with a PC using DataTrac software accessory
- Continuous sample volume calculations

Description	Part No.
Twin Port Pocket Pump* with NiMH battery pack,	
requires charger Part No. 223-229A and 100-240V	
for tubing, see Part Nos. 231-9-23 and 231-926 on p. 13	210-1003MTX



* ATEX Listed.

Grab Air Sample Pump — 1 L/min Economy Pump for Filling Bags



The SKC Grab Air Sample Pump is an economical choice for grab-and-go bag sampling. Grab Air operates at a fixed flow rate of 1 L/min for up to 1000 litres volume on one 9-volt battery. Simply attach a sample bag to the outlet port and turn on the pump. Simple, quick, reliable — Grab Air.

- 9-volt alkaline battery for approximately 1000 litres volume on one battery
- 1 L/min flow rate

Description	Part No.
Grab Air Pump* with 9-volt alkaline battery; for tubing, see	
Part No. 231-9-23 on p.13 Not CE Marked	222-2301
Grab Air Hazmat Kit* includes pump as described above and ten 1-li-	
tre Tedlar bags with single polypropylene fitting (Part No. 232-01)	222-2111

* Use in non-explosive environments only. Not ATEX or UL Listed. Not CE marked

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