

Jensen Inert Products' gas sampling bags offer a convenient, reliable, economical way of collecting airborne chemical hazards. They are chemically inert, leak tested, mechanically strong, reusable, and non-contaminating. Jensen Inert Gas Sampling Bags are available in Tedlar[®], Multi-Layer Foil, Charcoal Tedlar[®], ALTEF, FEP, PFA, TFM and other materials, with a variety of standard and custom fittings as well as optional metal eyelets for easy holding and storage.

Common applications

- Assessing exposure from spills and leaks
- Biogas and landfill sampling
- Calibrating Gas Standards
- Gas Blending
- Grab Sampling
- Magnetic Imaging
- Groundwater Testing
- Measuring Peak Concentrations
- Indoor Air Sampling
- Vent Sampling
- Soil Gas Sampling
- Hazardous Waste Site Sampling



APPROXIMATE STANDARD SIZES

SIZE/ INCHES	CAPACITY/ LITERS	SIZE/ INCHES	CAPACITY/ LITERS
6 x 6	0.6	12 x 19	10.0
7 x 7	1.0	12 x 21	12.0
6 x 10	1.2	18 x 18	16.0
9 x 9	2.0	18 x 24	25.0
10 x 10	3.0	24 x 24	40.0
12 x 12	5.0	24 x 30	56.0
12 x 15	7.0	24 x 36	73.0
12 x 17	8.0	30 x 30	80.0
12 x 18	9.5	30 x 36	100.0

CUSTOM SIZES AVAILABLE

Tedlar[®] is a registered trademark of E.I DuPont
 Locking Combo[®] is a registered trademark of Jensen Inert Products Inc.
 Swagelok[®] is a registered trademark of Swagelok Inc.
 Jaco[®] is a registered trademark of Jaco Manufacturing Inc.
 HR[®] is a registered trademark of Halkey Roberts Inc.

Tedlar[®] Bags

Tedlar[®] film has very low gas permeation levels for most compounds, and high tensile strength. Bags resist puncture in the field. 2 mil Tedlar[®] film is an economical alternative to FEP bags. Tedlar[®] is much less permeable than FEP and is unaffected by the chemical components of gases generally sampled, like carbon monoxide, sulfur dioxide, hydrogen sulfide, radon and mercaptans. Continuous use temperature from -98° to 400°F (temperature limit depends on fittings used). Required for many EPA testing methods.

ALTEF Bags

ALTEF is a proprietary fluoropolymer film developed especially for the Gas Sampling market. ALTEF does not exhibit background levels of DMAC or phenol. ALTEF is not recommended for ketones or esters in high concentrations (>30%) and is not suitable for storing H₂S. Maximum operating temperature: 260°F

Multi-Layer Foil Bags

Our Multi-Layer Foil bags are the best choice for collecting and storing H₂S. Ideal for sampling and storing for low molecular weight compounds such as Methane, CO, CO₂, Hydrogen, and inert gases which are not stable in Tedlar[®], ALTEF, or FEP. Water and vapor proof, these opaque, flexible bags protect light sensitive compounds. They provide up to 5 day sample stability for many VOCs, with minimal adsorption. Custom sizes available. Maximum operating temperature: 190°F

FEP Bags

FEP is one of the most chemically inert materials for making gas sampling bags. It works well in extreme temperatures ranging from -400° to 400°F; allowing it to be used in most stack sampling conditions. 5 mil FEP film is completely resistant to the most severe corrosives. Much more permeable than Multi-Layer or Tedlar[®]. FEP bags can be specified for applications involving corrosive gases.

Choice of Fittings and Valves

Standard valves and fittings offered are: Polypropylene Screw Cap Combo Valve, Polypropylene Locking Combo Valve[®], Nickel Plated HR[®] Barbed Valve, Jaco[®] Plastic Fitting for Tubing or Septum, TCLP Stainless Steel Septum fitting, Stainless Steel Push/Pull Valve, Stainless Steel Swagelok[®] type fitting, PTFE On/Off Valve with Stopcock, and PFA fitting.

Re-using bags

The EPA does not recommend reusing sample bags for ambient air sampling, due to the possibility of adsorption of previously sampled chemicals onto the inside bag surface. In some cases, bags can be reused, with the following guidelines:

- Immediately after use, clean bags by flushing and heating, then store with all air evacuated from the bag.
- Long-term storage of air-contaminant mixtures in bags can cause subsequent samples to be contaminated by off-gassing of previous samples adsorbed into the film.
- Tedlar[®] bags can be used for higher MW alcohols without contaminating subsequent samples if cleaned and flushed properly.
- Properly cleaned bags can be reused for sampling ethers without interfering with subsequent analysis.
- Tedlar[®] bags used for sampling styrene or ethyl benzene cannot be reused. Cleaning and flushing will not completely remove these chemicals.

Hints

- Before use, thoroughly flush bags with ultra-pure nitrogen or zero air
- During sampling, Fluoropolymer tubing and Fluoropolymer faced septums must be used in order to prevent sample loss.
- Bags should not be filled to more than 80% of their maximum volume.
- Charcoal (Black) Tedlar[®] bags should be used when sampling light sensitive compounds
- Do not store compounds in Tedlar[®] bags long term due to the possibility that chemicals may adsorb onto the bag surface.
- Bags should not be used to collect reactive or unstable compounds.
- When shipping bags, do not air-ship unless the bags are stored in a pressurized area..

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Available Valves and Fittings



Polypropylene Screw Cap Combo Valve with Replaceable Septum



Polypropylene Locking Combo Valve with Septum



Nickel Plated HR[®] Barbed On/Off Valve



Plastic Jaco[®] Fitting for Tubing or Septum



Swagelok[®] Type Stainless Steel Fitting for Tubing or Septum



Stainless Steel Push/Pull Valve



Stainless Steel TCLP Fitting with Replaceable Septum



PFA Fitting for Tubing or Septum



PTFE On/Off Valve with Stopcock