TECHINSTRO®
Vision Beyond Technology

Kynar Bags

User Manual

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WorKing

Kynar bag is a type of gas sampling bag. This sampling bag is made from Polyvinylid ene Fluoride Resin (PVDF); hence it is also known by PVDF bag. The Kynar is a commercial name of the PVDF. It is cost-effective alternatives to canisters and solvent or thermal desorption tubes for collecting air samples for research. They are suitable for sampling part-per-billion (ppb) to part-per-million (ppm) levels of permanent gases and volatile organic compounds (VOCs). It does not expose background levels of dimethylacetamide (DMAC) or phenol.

Product Series – Kyn-TI

Technical Specification

- MOC – PVDF, Silicon, and Polypropelene (PP)
- Film Thickness – 3 mil
- Colour – Transparent
- Form Factor – Flexible Solid
- Maximum Operating Temperature – 160 °F (71 °C)
- Storage – @ room temperature
- Delivery Mode – Air, surface or sea mode
- Capacity – 0.5 L to 10 L
- Customisation – Only for bulk quantity
- Available pack size – As per requirement
- Packing – Light Weight moisture proof

Specifications:

- Size: Vary as per the capacity
- Max Pressure: 1.5 PSI
- Fitting: 2-in-1 PP fitting
- Eyelet: One PP eyelet
- Valve Hose Diameter: 7mm or 4.75mm
- Bag Capacity – Minimum – 500 ml, Maximum – 10 liters
- Customization – Available as per client need

Features:

- It is robust and sturdy.
- It has remarkable resistance to chemicals such as acids, bases, halogenated solvents, hydrocarbons, alcohols, and salts.
- The PVDF bags are resistant to UV radiations, moisture, and Heat.
- The maximum temperate that the product operates on is 73-degree Celsius.
- The product is long-lasting and reusable.
- It keeps the samples safe for as long as 72 hours.

Applications

- Helps collect and transport CH4, C, CO, CO2, and permanent gases.
- Indoor Air Sampling
- Gas Blending
- Assessing Exposures from Leaks and Spills
- Leaky Underground Storage Tanks
- Sampling from Vents or Flues
- Hazardous Waste Site Sampling
- Stack Sampling
- Soil Gas Sampling
- Calibration Gas Standards

How to use ?

- How to take samples using the Kynar sampling bags On-Field
- Store the bags in a clean area, away from possible sources of contamination.
- It has a nozzle on the top or in the middle of the bag.
- Attach the pump tube to the nozzle and open the valve to take the sample.
- An operator must be careful that the bag only fills up to 90% of its capacity.
- Overfilling may cause a risk of the bag bursting due to varying air pressure in the bag.
- After filling it, close the valve and detach the bag.
- Do not detach the bag without closing the valve.
- For easy filling of the bag, use a low-flow air sample pump.
- Insert the needle into the red septum at the top of the connection.
- Do not allow the needle to pierce the film in the back of the bag.
- This collected sample then tested with the help of GC in the laboratory.
- Avoid re-using of Kynar bags in most cases.

Safety

- Store bags in a clean environment and avoid contamination sources.
- If the researcher is reusing the bag, clean it with nitrogen or any inert gas before use.
- Never fill the bags at more than 90% capacity.
- Seal the gas-filled bags in an unpressured opaque box if shipping through the air to avoid accidental damage.
- Do not use bags to collect unstable or highly reactive compounds.
- The researcher should collect at least two samples of the same gas to ensure no hassle due to leakage or bursting of any bag during transportation.
- The operator should keep the air-filled bag away from direct sunlight and extreme heat to avoid ravaging the sample's quality.

Feel Free to Reach Us
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