

Indicating Oxygen Trap

WARNINGS

Do not pass air or oxidizing gases in concentrations above 0.1% through this filter! The rapid oxidation of the active adsorbent in this filter can cause the filter bed to become extremely hot, resulting in danger of fire or burn injuries. Limited exposure of the filter to air during installation does not result in rapid reaction or dangerous heat generation.

Maximum pressure 11 bar/1103 kPa (160 psi). Wear eye protection and use caution when working with pressurized systems.

Do not expose the protective outer plastic tube to solvents.

Do not use without the protective, outer plastic tube in place.

Special precautions might be required when using hydrogen. Consult local regulations and your company's safety procedures.



Product Information

- Removes oxygen to low ppb levels from He, Ar, N₂, or methane.
- Indicator changes from green to gray when adsorption capacity is depleted.
- Can be used with nonoxidizing gases such as He, Ar, N₂, H₂, or CH₄.
- Heavy-walled inner glass tube is protected by a sealed, outer plastic tube to prevent oxygen and water infusion.
- Pre-purged with helium for fast stabilization.
- 160 psi (1103 kPa) maximum operating pressure.
- Reduces oxygen to 100 ppb.
- 10 µm frits at inlet and outlet.
- Optimal flow rate: < 150 mL/min.
- Maximum flow rate: 2 SLPM

Installation

Restek Recommends: To ensure optimal bed packing and performance, and to minimize the likelihood of material “channeling,” gas filters should be installed vertically.

The Restek Indicating Oxygen Trap is delivered in the active state, pre-purged with helium. It is ready for use, but it is recommended that the trap be purged with the gas you will be using. To connect in-line, first purge the gas line to remove air or oxygen. While maintaining a low purge rate of 10 to 30 cc/min, quickly remove the end plugs from both ends of the oxygen trap, then attach the trap to the gas line. Attach the end of the trap marked “Outlet” (the end farthest away from the Restek logo) to the instrument; then continue purging the entire system until a total of 1 to 2 liters of gas has been flushed through.

Warning: If you are using hydrogen or hazardous gas, additional special procedures may be needed. Consult your company's safety procedures.

Note: While the end plugs are removed from the trap during installation, the active adsorbent will react with air at a rate limited by diffusion into the adsorbent, and the trap may warm slightly. As long as the trap is attached to the gas line within a few minutes, trap heating and the loss of oxygen-adsorbing capacity will be negligible.



Oxygen Indicator

Questions about this or any other Restek product?

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