

Before using your new GS-OxyPLOT column, please refer to this guide for column installation and conditioning instructions.

Column installation

Before installing your GS-OxyPLOT column, please do the following:

1. Ensure that the carrier gas in your system is moisture-free. The use of an indicating Agilent moisture trap (part number CP17976 for 1/8" tubing or part number CP17977 for 1/4" tubing) is recommended.
2. Helium or nitrogen is recommended for your carrier gas. Hydrogen may be used as long as appropriate safety precautions are taken.

Note: Some GC inlet pressure systems may not be able to maintain adequate carrier gas pressure when using a 10 m × 0.53 mm id column.

Column conditioning

1. After installing the GS-OxyPLOT column, adjust the carrier gas flow rate to a desired set point. Confirm a flow to your detector by injecting a nonretained compound (for example, methane), and verify that you obtain a sharp peak response. If no response is seen or if the peak shows tailing, check your column connections and reinstall the column as required.

2. Condition the column at 300 °C for at least three hours before use. No special oven program is required for the conditioning. If the signal level is still high after three hours, it may be an indication of a leak in your GC system. Cool the oven, and make corrections or repairs, as needed.
3. Additional conditioning time of up to 8 hours may be required if the column has been kept in storage for extended period of time (6 months). The need for additional conditioning time is evident if the resolution of your target compounds is lower than expected.
4. Whenever you suspect column contamination during a GC run (water, polar compounds, or hydrocarbon larger than $n\text{-C}_{16}$ gets into the column), recondition the column at 300 to 350 °C for 3 hours.
5. When the GS-OxyPLOT column is installed in a GC oven but is not performing an analysis, it is suggested that an idle/standby temperature of 220 °C be maintained with normal gas flow to keep the column ready for subsequent analysis runs.
6. When the column is not installed in a GC oven, seal both ends of the column with septa, and store it inside the original GC column box at room temperature until ready to use.

Note: Slight opacity in the coating of the column is due to the manufacturing process and does not affect column performance.



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