Collecting Gas Samples with the IsoSampler™ GO and IsoTubes®

The IsoSampler GO includes a pressure regulator that is rated for a maximum of 3000 psi (200 bar). If pressures higher than this could be encountered, additional pressure control is required.

IsoTubes are NOT suitable for gases containing hydrogen sulfide (H_2S, sour gas).

Connect the IsoSampler GO

1. Locate a suitable sampling port that is equipped with a ¼" female NPT connection and a control valve to turn the gas on and off. The sampling port should supply a dry gas stream.
2. Make sure that the threads on the IsoSampler GO are clean, and then wrap 2 or 3 layers of Teflon® tape clockwise onto the male threads of the adapter.
3. Screw the IsoSampler GO into the port and tighten using a wrench on the body of the adapter.

Check an Evacuated IsoTube

4. Remove a new IsoTube from the plastic film. Connect the IsoTube to the pressure checker by pressing the valve stem into the chuck until it clicks into place as shown.

5. The vacuum reading on a new IsoTube should be between -30 and -20 inHg. If the reading is not at least -20 inHg of vacuum, do not use the IsoTube. Open another IsoTube and repeat.
6. After confirming the vacuum level, remove the pressure checker from the IsoTube by pulling back the outer sleeve of the chuck until the tube is released.

Collect a Sample

7. Slowly open the control valve on the sampling port. This will allow some gas to flow and purge the IsoSampler GO. The IsoSampler GO is equipped with a flow restrictor so that the amount of gas vented is minimized. Allow the IsoSampler GO to purge for 30 seconds.
8. Insert the IsoTube valve into the sampling chuck and push until it clicks into place (right image). Wait 30 seconds for the IsoTube to be filled with gas up to the regulator pressure.
9. Remove the IsoTube from the chuck.

Check the Sample Pressure

10. Connect the filled IsoTube to the pressure checker. Sample pressure should be between 0 and 80 psig (depending on your source pressure).
11. If the IsoTube is still evacuated, repeat the collection process with a new evacuated IsoTube.
12. If multiple samples consecutively fail to generate pressure, troubleshooting may be required.
13. Remove the pressure checker from the IsoTube.

Label and Package Collected Samples

14. Replace the end cap on the IsoTube valve and fill out one of the included labels with the sample information using a ball point pen (press hard, as three copies are made). Attach the label to the IsoTube and return the IsoTube to the shipping carton. When an entire sheet of sample tags has been used, one of the copies should be placed in the box with the IsoTubes and the other can be retained for your records.

Shipping instructions for return shipping to the laboratory are included with every box of IsoTubes and can also be found at isotechlabs.com. ***Please note that IsoTubes containing pressurized or flammable gas are considered hazardous materials for shipping purposes.***

ISOTECH
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