Oxidizer gases are those that, in the presence of an ignition source and a fuel, support and may vigorously accelerate combustion (e.g., oxygen, nitrous oxide).

When working with oxidizer gases, remember to:

- Keep oxidizer gases 20 feet from flammable gases and/or cylinders.
- Never handle/touch any part of the cylinder or fittings of oxidizer gas with bare hands that are contaminated with grease or oil.
  - Keep rags and gloves contaminated with grease or oil away from oxidizing gases.
  - Use only lubricants and connection or joint sealants recommended by the gas cylinder manufacturer or supplier.
- Never use oxygen in place of compressed air or nitrogen to purge gas lines.
- Require a minimum of two people in the lab when oxidizer gases are being used.