



"The Chlorine Dioxide People"

Providing you with gaseous chlorine dioxide solutions for your decontamination needs

Gas Cylinder Information

Specifications

- The gas cylinders used are of a **2% Chlorine / 98% Nitrogen** mixture
- The gas cylinders are 220 cubic feet cylinder volume
- The gas cylinders are style K cylinders (roughly 9" dia x 56" tall)
- The gas cylinders should be between 2000-2400 psig when full
- The gas cylinders should have a CGA 660 Valve Outlet Connection
- Cylinder contents classified as a compressed gas.

Safety and Handling

- Cylinder shall only be handled by trained persons.
- Cylinder valve should be closed when not in use.
- Cylinders should not be transported without safety caps. A cylinder's cap should be screwed all the way down and should fit securely. Do not lift cylinders by the cap. The cap is for valve protection only.
- Cylinders should not be transported with the regulator attached to the cylinder.
- Cylinder shall be secured by chain or belt above midpoint but below the shoulder at all times.
- Cylinder shall be stored in an upright position.
- Cylinders should be stored in a well-ventilated area away from flames, sparks, or any source of heat or ignition. Keep cylinders away from electrical circuits.

Safety and Usage

- Close valves on gas cylinders when a system is not in use.
- Remove all pressure from regulators not currently used (by opening equipment valves downstream **after** the cylinder valve is closed).
- Release pressure from systems before connections are tightened or loosened and before any repairs.
- Do **not** use Teflon tape on CGA fittings where the seal is made by metal-to-metal contact. Use of Teflon tape causes the threads to spread and weaken, increasing the likelihood of leaks.
- If regulators are removed, flush with dry air or nitrogen to prevent corrosion.
- Change regulator washers every time regulators are removed from gas cylinders.



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Cylinder Capacity

Each cylinder has the capacity to create enough chlorine dioxide gas to decontaminate a 20,000 ft³ area at a concentration of 1 mg/L. Smaller areas can be decontaminated multiple times using 1 gas cylinder, as seen in the table below.

| Application (volumes in cubic feet) | Amount of times area can be decontaminated using 1 cylinder at 1 mg/L (approximate) |
|---|--|
| 100 ft ³ isolator | 200 decons |
| 300 ft ³ room (pass-through chamber) | 66 decons |
| 1000 ft ³ room | 20 decons |
| 2500 ft ³ room | 8 decons |
| 10,000 ft ³ suite of rooms | 2 decons |
| 20,000 ft ³ suite of rooms | 1 decon |

Purchasing Information

Most gas suppliers are able to supply this gas mixture. Clordisys uses the following suppliers, who are both able to ship the gas to our customers.

Praxair

Contact: Jim Hine
Office: 908 788-3000
Cell: 908 295-0505

Email: james_hine@praxair.com

Airgas – East Coast
New Jersey

Contact: Colin Doyle
Office: 732-752-4500
Cell: 732-261-1112
Email: colin.doyle@airgas.com

Air Liquide

Contact: Barbara Galluppi
Phone: 215-766-7407

Email: barbara.galluppi@airliquide.com

Airgas – West Coast
Sacramento, CA

Contact: Charles Lipper
Office: 916-379-1000x2294
Cell: 925-584-2062
Email: Charles.lipper@airgas.com



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