



"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.



P.O. Box 549, Lebanon, NJ 08833-0549 Tel: (908) 236-4100 Fax: (908) 236-2222

www.clordisys.com

14-030 Rev 11-2014

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



P.O. Box 549, Lebanon, NJ 08833-0549 Tel: (908) 236-4100 Fax: (908) 236-2222
www.clordisys.com

14-030 Rev 11-2014