

Chlorine (Cl₂)

A greenish-yellow, liquefied gas with a choking odor. May react violently with ammonia, hydrocarbons and hydrogen.

Grade	% Purity	O ₂	CO	CO ₂	N ₂	THC
Electronic	99.99	50	5	5		1
Ultra High Purity	99.9	100		50	100	
High Purity	99.5 ⁽¹⁾					

Concentrations given are ppm by volume unless otherwise specified.

Notes

⁽¹⁾ Total impurities <5000ppm

PRODUCT	Ordering Information					Equipment Recommendations				
	Cylinder Size	Contents lbs	Standard Valve Outlet (CGA)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number		
Semiconductor	200	90	660	CL SM200	85	Single-Stage Positive Seal Regulators Y11-E444 * 660 Y11-E464 * 660 Cross Purge Assembly Y99-CPA4660 Tee Purge Y99-TP4C660	A = 0-25 B = 0-50 D = 0-100	E29 E29 E50 E51		
	80	40	660	CL SM80	85					
Certificate of Conformance available upon request.										
Ultra High Purity (UHP)	200	90	660	CL UHP200	85					
	Certificate of Conformance available upon request.									
High Purity (HP)	200	90	660	CL HP200	85					
	Certificate of Conformance available upon request.									

* Insert Delivery Pressure Range Code

Technical Data & Shipping Information

Molecular Weight	70.906
Specific Volume	5.46 cf/lb @70° F & 1 ATM
Flammability Limits in Air	Oxidizer
U.S. DOT Name	Chlorine
ID Number	UN 1017
U.S. DOT Hazard Class	2.3, 8
U.S. DOT Label	Inhalation Hazard & Corrosive
CAS Registry	7782-50-5

For more details, see Process Chemicals in Special Applications section.

Airgas Quality Policy

The purpose of the Airgas Quality System is to continually improve our manufacturing and related processes to provide our customers with the highest product purity, consistency, and service.