



Chlorine


DescriptionFormula: Cl₂**Gas Data**

Molecular Weight: 70.91
 Density: 2.9728 kg/m³ @ 21.1°C, 101.325 kPa
 0.18559 lb/ft³ @ 70°F, 14.696 psia
 Specific Volume: 0.33638 m³/kg @ 21.1°C, 101.325 kPa
 5.3882 ft³/lb @ 70°F, 14.696 psia

Safety Information

Permissible Exposure
 Limit (TLV): 0.5 ppm

Shipping Information

CAS Registry Number: 7782-50-5
 UN Number: UN 1017
 ECCN Number: EAR99
 DOT Proper Shipping Name: Chlorine
 DOT Classification: 2.3, Hazard Zone B (gas poisonous by inhalation)
 DOT Label: INHALATION HAZARD 
 CORROSIVE GAS
 TC Shipping Name: Chlorine
 TC Classification: 2.3, 5.1
 TC Label: POISON GAS, OXIDIZER

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure		Approximate Ship Weight	
		psig @ 70°F	kPa @ 21.1°C	lb	kg
1V	660	85	588	247	112
2	660	85	588	114	52
3	660	85	588	54	24
4	660	85	588	27	12
7C	660	85	588	6	3
7B	660	85	588	6	3
7A	660	85	588	6	3
7	660	85	588	6	3
LB	180	85	588	6	3
QF	660/728	85	588	232	105
GF	660/728	85	588	114	52
UF	660/728	85	588	54	24
JF	660/728	85	588	15	7
SA	660/180	85	588	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.		
			US	Metric					
Chlorine, Research Purity 99.999%	G2128101	QF	100 lb	45.36 kg	Single Stage Reg. Series 3210A-660 Cross Purge 4775-660 Personal Monitor IQ250 Leak Detector 8081A Detector Tube 8014-109SB Cyl. Valve Wrench TW-2 Manual Control Valve 55A-660	301 422 398 404 391 430 417			
<i>Guaranteed Specifications</i>	G2128140	GF	40 lb	18.14 kg					
Carbon Dioxide < 4 ppm	G2128165	JF	5 lb	2.27 kg					
Carbon Monoxide < 0.5 ppm	G2128184	7C	3.53 ft ³	100 L					
Methane < 0.1 ppm	G2128183	7B	1.77 ft ³	50 L					
Nitrogen < 2 ppm	G2128182	7A	0.88 ft ³	25 L					
Oxygen < 1 ppm	G2128181	7	0.25 ft ³	7 L					
Water < 2 ppm	G2128186	SA	1 lb	454 gm					
<i>A Certificate of Analysis is available on request at a nominal charge..</i>									
Chlorine Matheson Purity 99.99%	G1821823	QF	100 lb	45.36 kg	Single- Stage Reg. Series 3210A-660 Cross Purge 4775-660 Manual Control Valve 55A-660 Personal Monitor IQ250 Leak Detector 8081A Detector Tube 8014-109SB Cyl. Valve Wrench TW-2	301 422 417 398 404 391 430			
<i>Guaranteed Specifications</i>	G1821843	GF	40 lb	18.14 kg					
Carbon Dioxide < 5 ppm	G1821855	UF	15 lb	6.80 kg					
Carbon Monoxide < 5 ppm	G1821867	JF	5 lb	2.27 kg					
Methane < 1 ppm	G1821886	SA	1 lb	454 gm					
Nitrogen < 50 ppm									
Oxygen < 50 ppm									
<i>A Certificate of Analysis is available on request at a nominal charge.</i>									
Chlorine, Ultra High Purity 99.9%	G1919101	1A	100 lb	45.36 kg	Single- Stage Reg. Series 3903-660** Cross Purge 4775-660 Manual Control Valve 55A-660 Personal Monitor IQ250 Leak Detector 8081A Detector Tube 8014-109SB Cyl. Valve Wrench TW-2*	319 422 417 398 404 391 430			
<i>Guaranteed Specifications</i>	G1919140	2	40 lb	18.14 kg					
Carbon Dioxide < 50 ppm	G1919150	3	15 lb	6.80 kg					
Nitrogen < 100 ppm	G1919165	4	5 lb	2.27 kg					
Oxygen < 100 ppm	G1919175	LB	1 lb	454 gm					
<i>A lot analysis will be provided with each cylinder. Please inquire for individual cylinder analysis.</i>									
<i>Supplied with full length eductor tube. Pressurized to 1500 psig with helium on request.</i>									
<i>Ton containers for Chlorine available upon request.</i>									
<i>Caution: Not for use as a pesticide, disinfectant, slimicide or algacide.</i>									
<i>*Except LB</i>									
<i>**Regulators for gas phase only</i>									



Chlorine (continued)

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Chlorine, High Purity 99.5%	G1513122	1V	150 lb	68.04 kg	Single-Stage Reg.	Series 3903-660**	319
	G1513140	2	40 lb	18.14 kg	LB Regulator	Series 3570-180**	314
	G1513150	3	15 lb	6.80 kg	Cross Purge	4775-660	422
	G1513165	4	5 lb	2.27 kg	Manual Control Valve	55A-660	417
	G1513175	LB	1 lb	454 gm	Personal Monitor	IQ250	398
					Leak Detector	8081A	404
					Detector Tube	8014-109SB	391
					Cyl. Valve Wrench	TW-2*	430

Liquid phase, weight/weight%

A Certificate of Conformance will be provided on request.

By request, all except LB can be furnished with full length eductor tubes for liquid withdrawal.

Ton containers for Chlorine available upon request.

Caution: Not for use as a pesticide, disinfectant, slimicide or algacide.

*Except LB

**Regulators for gas phase only