

ELECTRONIC GASES

ARGON Ar

Argon is a colorless, odorless, nontoxic, nonflammable gas that is heavier than air. It is shipped in steel cylinders under high pressure.

Container Information

CYLINDER SIZE	CONTENTS	Pressure@21.1°C	2000 psig
	CU.FT.	Valve Outlet	CGA-580
044	224	DOT Shipping Description:	Argon, compressed, 2.2, UN 1006
		DOT Shipping Labels	Nonflammable Gas
		DOT Guide No.	12
		CAS Registry No.	7440-37-1

Specifications

COMPONENT	VLSI	UHP
ARGON	99.9995%min	99.999%min
Carbon Dioxide	<i>Total</i> <i>< 5 ppm</i> <i>for all gases</i>	< 7 ppm
Nitrogen		< 1 ppm
Oxygen		< 1 ppm
THC (as Methane)		< 0.1 ppm
Water		< 3 ppm

SHELF LIFE: 2 years

Physical Properties

Molecular Weight	39.95
Flammability Limits in air	Nonflammable
Specific Gravity,	
Gas @ 70°F(21.1°C), 1 atm(Air=1)	1.38
Liquid Density @ Boiling Point	86.95lbs/ft³ (1392.8g/l)
Density, Gas @ 70°F(21.1°C), 1 atm	0.1034lbs/ft³ (1.656g/l)
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	9.7 ft³/lb (0.604l/g)
Boiling Point @ 1 atm	-302.55°F (-185.86°C)
Melting Point @ 1 atm	-308.6°F (-189.2°C)
Critical Temperature	-188.5°F (-122.5°C)
Critical Pressure	705.6 psia (48.66 bar)
Toxicity	Non-Toxic, asphyxiant only