

ELECTRONIC GAS

HELIUM He

Helium is a colorless, odorless, non-toxic, non-flammable gas that is lighter than air. It is shipped in steel cylinders under high pressure.

Container Information				
CYLINDER SIZE	CONTENTS		Pressure @ 21.1°C	°2300, °b & °c2000 psig
	Ft ³	M ³		
049 ^a	280	8.0	Valve Outlet	CGA-580 / DISS-718
044 ^b	210	6.0	DOT Shipping Description:	Helium, compressed 2.2, UN 1046
016 ^c	70	2.0	DOT Shipping Labels DOT Guide No. CAS Registry No.	Non-flammable Gas 12 7440-59-7

Specifications		
COMPONENT HELIUM	ULSI 99.9999% min	VLSI 99.9995% min
Argon	< 100 ppb	< 1000 ppb
Carbon Dioxide	< 100 ppb	< 500 ppb
Carbon Monoxide	< 300 ppb	< 500 ppb
Nitrogen	< 100 ppb	< 1000 ppb
Oxygen	< 100 ppb	< 500 ppb
THC (as Methane)	< 100 ppb	< 500 ppb
Water	< 200 ppb	< 500 ppb
SHELF LIFE 2 years		

Physical Properties	
Molecular Weight	4.0026
Flammability Limits in air	Non-flammable
Specific Gravity, Gas @ 70°F(0°C), 1 atm(Air=1)	0.138
Density, Gas @ 70°F(21.1°C), 1 atm	0.0104lbs/ft ³ (0.166g/l)
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	96.6ft ³ /lb (6.03l/g)
Boiling Point @ 1 atm	-452.1°F (-268.9°C)
Critical Temperature	-450.3°F (-268.0°C)
Critical Pressure	33.2 psia (2.29 bar)
Toxicity	Non-Toxic, asphyxiant only