

ELECTRONIC GASES

HELIUM He

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

Container Information

CYLINDER SIZE	CONTENTS	Pressure@21.1°C Valve Outlet	49: 2400 psig 44: 2000 psig CGA-580
	CU.FT.		
049	261	DOT Shipping Description:	Helium, compressed, 2.2, UN 1046
044	200	DOT Shipping Labels DOT Guide No. CAS Registry No.	Nonflammable Gas 12 7440-59-7

Specifications

Specifications		
COMPONENT HELIUM	VLSI 99.9999%min	UHP 99.999%min
Argon	< 500 ppb	Total < 10 ppm for all gases
Carbon Dioxide	< 100 ppb	
Carbon Monoxide	< 100 ppb	
Oxygen	< 1000 ppb	
THC (as Methane)	< 100 ppb	
Water	< 1000 ppb	
SHELF LIFE: 2 years		

Physical Properties

Molecular Weight	4.0026
Flammability Limits in air	Nonflammable
Specific Gravity, Gas @ 70°F(21.1°C), 1 atm(Air=1)	0.14
Density, Gas @ 70°F(21.1°C), 1 atm	0.0104lbs/ft³ (0.167kg/m³)
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	96.6ft³/lb (6.03l/g)
Boiling Point @ 1 atm	-452.1°F (-268.94°C)
Critical Temperature	-450.3°F (-268.0°C)
Critical Pressure	33.2 psia (2.29 bar)
Toxicity	Non-Toxic, asphyxiant only