

ELECTRONIC GAS

NITROGEN N₂

Nitrogen is a colorless, odorless, non-toxic, non-flammable gas that is lighter than air. It is commonly used in wide range of inerting application. It is shipped in steel cylinders under high pressure.

Container Information

CYLINDER SIZE	CONTENTS		Pressure @ 21.1°C Valve Outlet	2000 psig CGA-580 / DISS-718
	Ft ³	M ³		
049	233	6.6	DOT Shipping Description: DOT Shipping Labels DOT Guide No. CAS Registry No.	Nitrogen, compressed 2.2, UN 1066 Non-flammable Gas 12 7727-37-9
044	212	6.0		
016	70	2.0		

Specifications

COMPONENT NITROGEN	ULSI 99.9999% min	VLSI 99.9995% min
Carbon Dioxide	< 100 ppb	< 200 ppb
Carbon Monoxide	< 100 ppb	< 500 ppb
Oxygen	< 500 ppb	< 1000 ppb
THC (as Methane)	< 100 ppb	< 200 ppb
Water	< 200 ppb	< 500 ppb

SHELF LIFE: 2 years

Physical Properties

Molecular Weight	28.013
Flammability Limits in air	Non-flammable
Specific Gravity, Gas @ 70°F(21.1°C), 1 atm(Air=1)	0.96
Liquid Density @ Boiling Point	50.47lbs/ft ³ (808.5g/l)
Density, Gas @ 70°F(21.1°C), 1 atm	0.0725lbs/ft ³ (1.16g/l)
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	13.8ft ³ /lb (0.862l/g)
Boiling Point @ 1 atm	-320.4°F (-195.8°C)
Critical Temperature	-232.8°F (-146.9°C)
Critical Pressure	492.5 psia (34.0 bar)
Toxicity	Non-Toxic, asphyxiant only