

NEON (Ne)



Gas Description

Neon is a colourless, odourless, non-flammable and non-toxic gas with a gas density at STP 0.842 kg/m³. Neon is known as a "rare gas". This colourless and tasteless gas cannot sustain life. It is so inert that it does not react and can only be combined with other chemical substances with great difficulty. The extreme inertness makes it very valuable for certain applications. Neon is supplied in cylinders

Typical applications :

Neon light tubes
Filling gas for light and electrical devices
Lasers
Spark chambers
Cryogenic refrigerations

Transport Regulations :

UN Number : 1065
Shipping Name : NEON, COMPRESSED
Class : 2.2 : Non-Flammable / Non-Toxic Gas
CAS Number : 7440-01-9
Hazchem : 2[T]

[Click here](#) for MSDS
[Click here](#) for more information

Physical Properties

Chemical symbol : Ne
Molecular weight : 20.18
Specific gravity (Air=1) : 0.696
Specific volume (m³/kg) : 1.19
Critical temperature : -229°C
Boiling point : -246.1°C

Melting Point : -249°C
Critical pressure (bar) : 27.23
Major hazards : Fire / Pressure / Suffocation
Toxicity : Simple Asphyxiant
Flammability Range: Non-Flammable
Odour : None

[Click here](#) for more information

Application

INDUSTRY

Laboratories and Analysis

APPLICATION

Ionised particle research
Coolant for ultra-sensitive infrared detectors
Detection of ionized particles in bubble chambers.

Other

Used in "neon" advertising signs
Makes low energy lamps possible
Filler for X-Ray tubes such as thyratons
Used in helium neon gas lasers
Used as buffer gas in metallic vapour lasers/

[Click here](#) for more information

NEON (Ne)



Neon : N40

Standard Purity 99.99%

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
H ₂ O	< 3ppm	B 20	NF C	20,000	3.5
O ₂	< 3ppm	B 50			9
H ₂	< 2ppm				
N ₂	< 15ppm				
He	< 80ppm				

Recommended Equipment

Dual stage chrome plated brass body regulator with a stainless steel diaphragm.

For further information [Contact](#) the specialty gases representative in your region.

Neon : N50

Standard Purity 99.999%

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
H ₂ O	< 3ppm	B 1	NF C	15,000	140 litres
O ₂	< 3ppm	B 5		20,000	0.9
H ₂	< 2ppm	B 20			3.5
N ₂	< 15ppm	B 50			9.0
CnHm	< 0.2ppm				
CO	< 0.1ppm				
CO ₂	< 0.2ppm				
CF ₄	< 0.5ppm				
He	< 30ppm				

Recommended Equipment

Dual stage chrome plated brass body regulator with a stainless steel diaphragm.

For further information [Contact](#) the specialty gases representative in your region.