

XENON (Xe)



Gas Description

Xenon is an odourless, tasteless, non-flammable, non-toxic, non-corrosive, asphyxiant with a gas density at STP 5.584 kg/m³. Xenon is considered a “rare gas” as it makes up only one thousandth of the air which surrounds us. Xenon is so inert that it does not react and can only be combined with other chemical substances with great difficulty. The inert quality makes it very valuable for certain applications.

Typical applications :

Mass Spectrometer calibration
Ion etching
Radiation and particle counters
Experimental anesthetic
Diagnostic gas in CAT scan machines
Insulating windows
Excimer lasers
Used to fill high intensity lamps

Transport Regulations :

UN Number : 2036
Shipping Name : XENON, COMPRESSED
Class : 2.2: Non-Toxic, Non-Flammable gas
CAS Number : 7440-63-6
Hazchem : 2[T]E

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

Physical Properties

Chemical symbol : Xe
Molecular weight : 131.30
Specific gravity (Air=1) : 4.553
Specific volume (m³/kg) : 0.18
Critical temperature : 16.6°C
Boiling point : -108.1°C

Melting Point : -111.8°C
Critical pressure (bar) : 58.8
Major hazards : High Pressure
Toxicity : Simple Asphyxiant
Flammability Range : Non-Flammable
Odour : None

[Click here](#) for more information

Application

INDUSTRY

Glass, Cement, Lime

Healthcare

Space and Aeronautics

Other

APPLICATION

Used to fill halogen sealed-beam headlights.

Produces better X-Ray signals / lower radiation. enhances imaging contrast of brain scanners.

Ideal gas for positioning satellites

Used in incandescent lamps, flash bulbs, flat screen televisions (plasma).
Used in high energy particle physics research

[Click here](#) for more information

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Xenon : **N48**

Standard Purity 99.998%

<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 0.4 alu	NF C	6,000	20 litres
O ₂	< 2ppm	B 1 alu		36,000	50 litres
CF ₄	< 2ppm	B 5		6,000	500 litres
H ₂	< 1ppm	B10			2000 litres
CO + CO ₂	< 2ppm	B20			4000 litres
N ₂	< 10ppm	B50			10000 litres
Kr	<25ppm				

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.