

KRYPTON (Kr)



Gas Description

Krypton 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. Krypton has a gas density at STP 3.51 kg/m³ and is supplied in cylinders as a compressed gas.

Typical applications :

Thermal insulator
Lighting industry in incandescent and iodine bulbs
X-Ray radiography
Excimer lasers
Mass spectrometry calibration standard

Transport Regulations :

UN Number : 1056
Shipping Name : KRYPTON, COMPRESSED
Class : 2.2: Non-Flammable gas / Non-Toxic
CAS Number : 7439-90-9
Hazchem : 2[T]

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

Physical Properties

Chemical symbol : Kr
Molecular weight : 83.80
Specific gravity (Air=1) : 2.899
Specific volume (m³/kg) : 0.29
Critical temperature : -64°C
Boiling point : -153.4°C

Melting Point : -157.2°C
Critical pressure (bar) : 55.05
Major hazards : High Pressure, Suffocation
Toxicity : Simple Asphyxiant
Flammability Range : Non-Flammable
Odour : Extreme

[Click here](#) for more information

Application

INDUSTRY

Glass

Space & Aeronautics

Other

APPLICATION

Used to fill double glazing enclosures.
Used to fill halogen sealed-beam headlights.

Gradually replacing chemical propellants for satellite-positioning ion motors.

High intensity, long-life lamps.
Used with halogens in excimer lasers.
Krypton can produce wavelengths which vary as a function of operating conditions

[Click here](#) for more information

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Krypton : **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		60 litres
O ₂	< 2ppm	B 1 alu		8,000	100 litres
CF ₄	< 2ppm	B 5		8,000	500 litres
H ₂	< 1ppm	B20		8,000	6,000 litres
CO + CO ₂	< 2ppm	B50		13,700	10,000 litres
N ₂	< 10ppm				
Xe	< 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.