



Krypton

Product Specification Sheet

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Krypton – A Colorless, Odorless, Nonflammable Inert Gas

Krypton (Kr) is used in halogen sealed beam headlights to increase light output by allowing thinner filaments to be used with acceptable useful lifetimes. Krypton is also used in lasers, in particular mixed with fluorine to create an “excimer” mixture that is precursor to a molecule which exists in the excited state but not in the ground state. In excimer lasers, the gas mixture is pulsed to form short-lived excited molecules which release energy by light emission as the constituents return to the ground state. Krypton-fluorine excimer lasers produce high-power ultraviolet light used in eye surgery. Other applications are sterilization of fluids and lithographic fabrication of semiconductors.

We also produce a broad range of binary and multi-component ranges from ppm up to 50% based on your specifications. We prepare Krypton Mixtures in combination with other noble gases, halogen gases, and flammable and toxic compounds.

Specifications

Krypton, 99.999% (Research Grade)

Chemical Parameter	Product Specification	Unit
Krypton	99.999	%
Nitrogen	< 4	ppmv
Oxygen	< 0.5	ppmv
Carbon Monoxide	< 0.5	ppmv
Carbon Dioxide	< 0.5	ppmv
THC	< 0.5	ppmv
Moisture	< 2	ppmv
Sulfur Hexafluoride	< 0.1	ppmv
Halocarbon 116	< 0.1	ppmv
Xenon	< 2	ppmv

Technical Information:

Chemical Symbol:	Kr
Molecular Weight:	84.913 g/mol
Specific Volume:	4.61 cu. ft/lb.
CAS Registry Number:	7439-90-9

Shipping Information:

DOT Proper Name:	Krypton
Hazard Class:	2.2
I.D. Number:	UN 1056
Labels:	Nonflammable Gas