

Marking

CAS-Number 7440-63-3

Characterization acc. ADR UN 2036, Xenon, compressed, 2.2 Class 2, 2 A

Cylinder Marking

shoulder:
light green

Essential properties

Colourless, odorless rare gas, compressed, heavier than air

Symbols of Risks

gas, compressed

Physical Properties

molecular weight: 131,30 kg/kmol
 gas density at 0°C and 1,013 bar: 5,8982 kg/m³
 density ratio to air: 4,5619

For additional safety information see Material-/safety data sheet No. *-XE-127

Valves / Manifolds

Valve connection acc. to national standards

Recommended Manifolds Spectrolab FM 51 / FM 52exact
Spectrocem FE 51 / FE 52exact

**Specifications / Forms of delivery**

		5.0	
Composition			
Xe	>	99,999	Vol.-%
Impurities			
O ₂ + Ar	<	1	ppmv
N ₂	<	2,5	ppmv
H ₂ O	<	2	ppmv
THC (as CH ₄)	<	0,5	ppmv
CO + CO ₂	<	1	ppmv
Kr	<	2	ppmv
CF ₄	<	1	ppmv
H ₂	<	0,5	ppmv
Cylinders / Contents			
F 2		200,0	l
F 10		2000,0	l
F 50		10000,0	l

Remarks

Applications:
 Filling gas for lamps (halogen lamps, gas discharge lamps)
 Component of panning gas for plasma display panels (PDP)
 Component of excimer laser gas mixtures
 Anaesthetic gas in medicine

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Description

Colourless, odorless, under normal conditions inert rare gas, narcotic. Chemical compounds with Fluorine and Oxygen are known.

Materials

Cylinders and Valves: any usual materials
Seals: PTFE, PCTFE, PVDF, PA, PP, IIR, NBR, CR, FKM, Q, EPDM

Physical Properties

molecular weight	131,30 kg/kmol	vapour pressure at 20°C	
Critical Point		gas density at 0°C and 1,013 bar	5,8982 kg/m ³
temperature	289,740 K	density ratio to air	4,5619
Pressure	58,400 bar	gas density at 15°C and 1 bar	5,514 kg/m ³
density	1,110 kg/l	Conversion Factor	
Triple Point		liquid at Ts to m ³ gas (15°C, 1 bar)	
temperature	161,396 K	Virial Coefficient	
Pressure	0,81668 bar	Bn at 0°C	-6,8*10 ⁻³ bar ⁻¹
Boiling Point		B30 at 30°C	-5,8*10 ⁻³ bar ⁻¹
temperature	165,066 K; -108 °C	Gaseous State at 25°C and 1 bar	
liquid density	2,94 kg/l	specific heat capacity cp	0,1583 kJ/kg K
evaporation heat	95,422 kJ/kg	thermal conductivity	55,5*10 ⁻⁴ W/m K
		dynam. viscosity	23,0*10 ⁻⁶ Ns/m ²