

Marking

CAS-Number 7440-01-9

Characterization acc. ADR UN 1065, Neon, compressed, 2.2 Class 2, 1 A

Cylinder Marking

shoulder:
light green

Essential properties

Colourless, odorless rare gas, compressed, lighter than air

Symbols of Risks

gas, compressed

Physical Properties

molecular weight: 20,179 kg/kmol
 gas density at 0°C and 1,013 bar: 0,9000 kg/m³
 density ratio to air: 0,6960

For additional safety information see Material-/safety data sheet No. *-NE-086A

Valves / Manifolds

Valve connection acc. to national standards

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

**Specifications / Cylinders**

| | | 5.0 | |
|-----------------------------|---|--------|--------|
| Composition | | | |
| Ne | > | 99,999 | Vol.-% |
| Impurities | | | |
| O ₂ | < | 1 | ppmv |
| N ₂ | < | 2 | ppmv |
| H ₂ O | < | 1 | ppmv |
| He | < | 6 | ppmv |
| CO ₂ | < | 0,5 | ppmv |
| HC | < | 0,1 | ppmv |
| Cylinders / Contents | | | |
| F 10 200 bar | | 1860,0 | l |
| F 50 200 bar | | 9260,0 | l |

Remarks

Applications:
 Filling gas for tubular neon lamps
 Component of laser gas mixtures (Helium-Neon lasers, Excimerlasers)
 Component of panning gas (filling gas for plasma display panels [PDP])
 Buoyancy gas for stratospheric balloons