

Marking**CAS****Characterization acc. ADR****Cylinder Marking**

7440-59-7
UN 1046 HELIUM,
COMPRESSED, 2.2, (E)



Shoulder color: brown

Essential properties

compressed gas, lighter than air, colorless, odorless

Symbols of risks**Physical Properties**

molecular weight	4,0026 kg/kmol
gas density at 0°C and 1,013 bar	0,1785 kg/m ³
density ratio to air	0,1380

For additional safety information see safety data sheet *-HE-061A

Valves / Manifolds**Valve connection**

200 bar: acc. to national regulations
300 bar: ISO 5145 Nr. 1: W 30 x 2

Recommended Manifolds

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



Specification / receptacles							
		Helium 4.6	Helium 5.0	Helium 5.6	Helium ECD	Helium 6.0	
Composition							
He	≥	99.996	99.999	99.9996	99.9996	99.9999	Vol.-%
Impurities							
O ₂	≤	5	1	1	1	0.5	ppmv
N ₂	≤	20	4	1	1	0.5	ppmv
HC (as CH ₄)	≤	1	0.2	0.1	0.1	0.1	ppmv
CO + CO ₂	≤	-	-	0.1	-	0.1	ppmv
H ₂ O	≤	5	3	2	2	0.5	ppmv
halogenated HC	≤	-	-	-	1	-	ppbv

Remarks**Applications:**

Carrier gas for gas chromatography,
cooling gas for production of optical fibers,
leak detection, filling gas for air bags,
shielding gas, laser welding,
metallurgy, meteorology (weather balloons),
reactor cooling gas, aeronautics,
laser technology.

Contents in m³ at 15°C, 1 bar