

**Marking****Characterization acc. ADR**

UN 1954 COMPRESSED GAS,  
FLAMMABLE, N.O.S.  
(HYDROGEN, HELIUM), 2.1,  
(B/D)

**Essential properties**

compressed gas, lighter than air, colorless, odorless, flammable

**Cylinder Marking**

Shoulder color: red

**Symbols of risks****Physical Properties**

molecular weight	3,2079 kg/kmol
gas density at 0°C and 1,013 bar	0,14 kg/m <sup>3</sup>
density ratio to air	0,11

For additional safety information see safety data sheet \*-H2-HE-01

**Valves / Manifolds****Valve connection**

acc. to national regulations

**Recommended Manifolds**

Spectrolab FM 51, FM 52exact  
Spectrocem FE 51, FE 52exact



Specification / receptacles		FID-fuel gas	
<b>Composition</b>			
He	=	60	Vol.-%
H <sub>2</sub>	=	40	Vol.-%
<b>Impurities</b>			
O <sub>2</sub>	≤	5	ppmv
N <sub>2</sub>	≤	20	ppmv
HC (as CH <sub>4</sub> )	≤	1	ppmv
CO + CO <sub>2</sub>	≤	0.5	ppmv
H <sub>2</sub> O	≤	10	ppmv
<b>Cylinder / Contents</b>			
F 10 200 bar		1.8	m <sup>3</sup>
F 50 200 bar		9.0	m <sup>3</sup>
F 50*12 200 bar		108.6	m <sup>3</sup>

**Remarks**

Fuel gas for flame ionisation detectors (FID), especially in automotive industries.

Production tolerance: +/- 5% rel  
Contents in m<sup>3</sup> at 15°C, 1 bar