

**Marking**

**CAS-Number** 7440-37-1

**Characterization acc. ADR** UN 1006, Argon, compressed, 2.2 Class 2, 1A

**Cylinder Marking**

shoulder:  
dark green

**Essential properties**

colourless, odorless rare gas, compressed, heavier than air

**Symbols of Risks**

gas, compressed

**Physical Properties**

molecular weight: 39,948 kg/kmol  
 gas density at 0°C and 1,013 bar: 1,784 kg/m<sup>3</sup>  
 density ratio to air: 1,3797

For additional safety information see Material-/safety data sheet No. \*-AR-003A

**Valves / Manifolds**

**Valve connection** 200 bar: acc. to national standards  
 300 bar: ISO 5145 Nr. 1; W 30 x 2

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

**Specifications / Forms of delivery**

		4.8 *	Spectro *	5.0	5.7 *	6.0	
<b>Composition</b>							
Ar	>	99,998	99,998	99,999	99,9997	99,9999	Vol.-%
<b>Impurities</b>							
H <sub>2</sub> O	<	4	2	3	1	0,5	ppmv
O <sub>2</sub>	<	3	2	2	0,5	0,5	ppmv
N <sub>2</sub>	<	10	-	5	1	0,5	ppmv
THC (as CH <sub>4</sub> )	<	0,2	0,2	0,1	0,1	0,1	ppmv
CO + CO <sub>2</sub>	<	0,2	0,2	0,1	0,1	0,1	ppmv
<b>Cylinders / Contents</b>							
F 05 200 bar		-	-	1,0 *	-	-	m <sup>3</sup>
F 10 200 bar		2,1	2,1 *	2,1	-	-	m <sup>3</sup>
F 20 200 bar		4,3 *	-	4,3 *	4,3 *	-	m <sup>3</sup>
F 20 300 bar		6,1 *	-	-	-	-	m <sup>3</sup>
F 50 200 bar		10,7	10,7 *	10,7	10,7 *	10,7	m <sup>3</sup>
F 50 300 bar		15,3	-	15,3	-	-	m <sup>3</sup>
B 12 * F 50 200 bar		128,6	-	128,6	-	-	m <sup>3</sup>
B 12 * F 50 300 bar		183,4	-	183,4	-	-	m <sup>3</sup>

**Remarks**

Applications:  
 Shielding gas for special welding problems and sensitive materials (titanium, niob, tungsten, etc.)  
 Spark erosion spectrometry  
 Plasma processes  
 Filling gas for windows  
 Filling gas for lamps

\*: not available in each country