

E 938

Marking**CAS****Characterization acc. ADR****Cylinder Marking**7440-37-1
UN 1006 ARGON,
COMPRESSED, 2.2,(E)

Shoulder color: dark green, body

Essential properties

compressed gas, heavier than air, colorless, odorless

Symbols of risks

For additional safety information see safety data sheet *-AR-003A

Description

Rare gas, colorless, odorless, heavier than air. In closed rooms the breathing air is displaced, no warning symptoms (danger of asphyxiation!).

Materials

Cylinders and Valves: any usual materials

Seals: PTFE, PCTFE, PVDF, PA, PP, IIR, NBR, CR, FKM, Q, EPDM

Physical Properties			
molecular weight	39,948 kg/kmol	vapour pressure at 20 °C	
critical point		gas density at 0 °C and 1,013 bar	1,784 kg/m ³
temperature	150,86 K	density ratio to air	1,3797
Pressure	48,98 bar	gas density at 15 °C and 1 bar	1,669 kg/m ³
density	0,5357 kg/l	conversion factor	
triple point		liquid at Ts to m ³ gas (15 °C, 1 bar)	0,8352
temperature	83,80 K	virial coefficient	
Pressure	0,6891 bar	Bn at 0 °C	-0,96*10 ⁻³ bar ⁻¹
boiling point		B30 at 30 °C	-0,61*10 ⁻³ bar ⁻¹
temperature	87,280 K; -186 °C	gaseous state at 25 °C and 1 bar	
liquid density	1,3940 kg/l	specific heat capacity cp	0,5216 kJ/kg K
evaporation heat	161,3 kJ/kg	thermal conductivity	178,2*10 ⁻⁴ W/m K
		dynam. viscosity	22,8*10 ⁻⁶ Ns/m ²