Product sheet Argon 5.0

Product name	Argon 5.0
Physical state	gaseous, compressed
Chemical sign	Ar
Chemical designation	Argon
Purity	99,999 %
Standard	is not subject to any standard
Properties	see safety data sheet
Shoulder color	emerald green (RAL 6001)

Minor components	Maximum values
Nitrogen	5,0 vol. ppm
Oxygen	2,0 vol. ppm
Moisture	3,0 vol. ppm
Hydrocarbons	1,0 vol. ppm

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Argon 5.0 T10 RCyl	A00540110	steel	10,0 l	200,0 bar	2,1 m^3	DIN 477 No. 6 (W 21,80 x 1/14)	
Argon 5.0 T50 RCyl	A00540150	steel	50,0 l	200,0 bar	10,7 m^3	DIN 477 No. 6 (W 21,80 x 1/14)	
Argon 5.0 T50 RCyl 300 bar	A005401503	steel	50,0 l	300,0 bar	15,3 m^3	DIN 477 No. 6 (W 21,80 x 1/14)	
Argon 5.0 T02 RBundle12	A00540312	steel	600,0 l	200,0 bar	128,4 m^3	DIN 477 No. 6 (W 21,80 x 1/14)	
Argon 5.0 T02 RBdle12 w. 3.1 B certifica	A0054031223	steel	600,0 l	200,0 bar	128,4 m^3	DIN 477 No. 6 (W 21,80 x 1/14)	
Argon 5.0 T02 RBundle12 300 bar	A005403123	steel	600,0 l	300,0 bar	183,6 m^3	DIN 477-5 No. 54 (W	

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
						21,80 x 1/14)	
Alumini 12 fly Argon 5.0	A04020701AF	aluminum	1,0 l	12,0 bar	12,0 gases liter	7/16" null	
Alumini 200 Argon 5.0: 100 l	A04040701A	aluminum	0,5 l	200,0 bar	0,1 m^3	DIN 477 No. 6 (W 21,80 x 1/14)	
Unless otherwise stated, these refer to filling pressure at 288,15K (15°C) and to content at 288,15K (15°C) and 1,013 bar.							

Typical applications

- as a lamp filler gas
- for laser cutting
- for plasma cutting
- for forming
- for MIG welding
- for plasma welding
- for TIG welding
- for inerting
- in gas chromatography
- in spectroscopy

Physical data

operating figures	Molar mass	39,95 g mol^{-1}
Liquid State	Heat of Evaporation	160,81 kJ kg^{-1}
	Liquid Density	1392,8 kg m^{-3}
Gas State	Thermal Conductivity (at 288.15 K and 1.013 bar)	0,0160 J s^{-1} m^{-1} K^{-1}
	Density Ratio to Air (at 288.15 K and 1.013 bar)	1,38
	Specific heat (at 298.15 K and 1.013 bar)	0,52 kJ kg^{-1} K^{-1}
	Density (at 273.15 K and 1.013 bar)	1,78 kg m^{-3}
Critical Point	Temperature	150,86 (-122,3) K (°C)
	density	537,7 kg m^{-3}
	Pressure	48,98 bar
Triple Point	Temperature	83,8 (-189,4) K (°C)
	Vapour Pressure	0,687 bar
	Heat of Fusion	29,3 kJ kg^{-1}

Current state 28.11.2021

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