



**Westfalen**

## Product sheet Argon 4.8 Spectro

Product name	Argon 4.8 Spectro
Physical state	gaseous, compressed
Chemical sign	Ar
Chemical designation	Argon
Purity	99,998 %
Standard	is not subject to any standard
Properties	see safety data sheet
Shoulder color	emerald green (RAL 6001)

Minor components	Maximum values
Nitrogen	10,0 vol. ppm
Oxygen	3,0 vol. ppm
Moisture	5,0 vol. ppm
Hydrocarbons	1,0 vol. ppm

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Argon 4.8 Spectro T05 RCyl	A00510105	steel	5,0 l	200,0 bar	1,0 m <sup>3</sup>	DIN 477 No. 6 (W 21,80 x 1/14)	
Argon 4.8 Spectro T10 RCyl	A00510110	steel	10,0 l	200,0 bar	2,1 m <sup>3</sup>	DIN 477 No. 6 (W 21,80 x 1/14)	
Argon 4.8 Spectro T20 RCyl	A00510120	steel	20,0 l	200,0 bar	4,3 m <sup>3</sup>	DIN 477 No. 6 (W 21,80 x 1/14)	
Argon 4.8 Spectro T50 RCyl	A00510150	steel	50,0 l	200,0 bar	10,7 m <sup>3</sup>	DIN 477 No. 6 (W 21,80 x 1/14)	
Argon 4.8 Spectro T50 RCyl 300 bar	A005101503	steel	50,0 l	300,0 bar	15,3 m <sup>3</sup>	DIN 477 No. 6 (W 21,80 x 1/14)	



Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Argon 4.8 Spectro RBundle12	A00510312	steel	600,0 l	200,0 bar	128,4 m <sup>3</sup>	DIN 477 No. 6 (W 21,80 x 1/14)	
Argon 4.8 Spectro RBundle12 300 bar	A005103123	steel	600,0 l	300,0 bar	183,6 m <sup>3</sup>	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 inerting
- in gas chromatography
- in spectroscopy

### Physical data

operating figures	Molar mass	39,95 g mol <sup>-1</sup>
Liquid State	Heat of Evaporation	160,81 kJ kg <sup>-1</sup>
	Liquid Density	1392,8 kg m <sup>-3</sup>
Gas State	Thermal Conductivity (at 288.15 K and 1.013 bar)	0,0160 kg m <sup>-3</sup>
	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 kg m <sup>-3</sup>
	Density (at 273.15 K and 1.013 bar)	1,78 kg m <sup>-3</sup>
Critical Point	Temperature	150,86 (-122,3) K (°C)
	density	537,7 kg m <sup>-3</sup>
	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 <sup>-1</sup>

All mentioned data, values and notes correspond to actual state of knowledge on the date of printing. They make no claim to be correct or complete and therefore do not release the user from his obligation to check them.

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