



Product sheet Argon 4.6

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|----------------------|--------------------------|
| Product name | Argon 4.6 |
| Physical state | gaseous, compressed |
| Chemical sign | Ar |
| Chemical designation | Argon |
| Purity | 99,996 % |
| Standard | EN ISO 14175 |
| Properties | see safety data sheet |
| Shoulder color | emerald green (RAL 6001) |

| | |
|------------------|----------------|
| Minor components | Maximum values |
| Oxygen | 5,0 vol. ppm |
| Moisture | 5,0 vol. ppm |

| Name | Material number | Bottle type | Bottle container volume | Vapour/filling pressure | Content | Valve | Properties |
|-----------------------------|-----------------|-------------|-------------------------|-------------------------|----------------------|--------------------------------|------------|
| Argon 4.6 T10 RCyl | A00500110 | steel | 10,0 l | 200,0 bar | 2,1 m ³ | DIN 477 No. 6 (W 21,80 x 1/14) | |
| Argon 4.6 T20 RCyl | A00500120 | steel | 20,0 l | 200,0 bar | 4,3 m ³ | DIN 477 No. 6 (W 21,80 x 1/14) | |
| Argon 4.6 T50 RCyl | A00500150 | steel | 50,0 l | 200,0 bar | 10,7 m ³ | DIN 477 No. 6 (W 21,80 x 1/14) | |
| Argon 4.6 T50 RCyl 300 bar | A005001503 | steel | 50,0 l | 300,0 bar | 15,3 m ³ | DIN 477-5 No. 54 CEN Nr. 1 | |
| Argon 4.6 RBundle12 | A00500312 | steel | 600,0 l | 200,0 bar | 128,4 m ³ | DIN 477 No. 6 (W 21,80 x 1/14) | |
| Argon 4.6 RBundle12 300 bar | A005003123 | steel | 600,0 l | 300,0 bar | 183,6 m ³ | DIN 477-5 No. 54 CEN Nr. 1 | |

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 plasma cutting
- for forming
- for laser welding
- for MIG welding
- MSG brazing
- 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 kg m ⁻³ |
| | 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 ⁻³ |
| | 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 |

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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