

PRODUCT DATA SHEET

Argon (Ar)

Argon is the third most abundant of the mixture of gases in the air, the concentration being approximately 0,94% by volume. It is inert, non-toxic, colourless, odourless and tasteless. Supplied in high pressure metal cylinders and manifolded cylinder packs.

Hazards

- Compressed high pressure gas in cylinders
- Asphyxiant in high concentrations.

Classifications (Argon Technical)

Gas	Purity
Argon technical	99,9%

Material Description	Mass (kg)	Cylinder Capacity (ℓ)	Pressure @ 20°C (Bar)	Valve Outlet Connection	Item Number
ARGONTEC CYL 17,4 KG	17,4	50,0	200	5/8" BSPF right hand female	10-SE
ARGONTEC CYL 7,0 KG	7,0	20,0	200	5/8" BSPF right hand female	10-JE

Higher grades and purities of this product are available from Afrox
Specifications are included in the 'Special Products and Chemicals' section

Gas (Argon High Purity)	Purity
Argon high purity	99,998%

Material Description	Mass (kg)	Cylinder Capacity (ℓ)	Pressure @ 20°C (Bar)	Valve Outlet Connection	Item Number
ARGON HP CYL 17,4 KG	17,4	50,0	200	5/8" BSPF right hand female	11-SE
ARGON HP MCP 15 X 17,4 KG	261	MCP	200	5/8" BSPF right hand female	11-ME15

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Physical Data	
Appearance/odour	Colourless and odourless
Molecular weight	39,948
Specific volume at 21,1°C and 101,325 kPa	603,7 ℓ/kg
Boiling point at 101,325 kPa	-185,9°C
Critical temperature	-122,4°C
Relative density (air = 1) at 1 atm	1,380
Absolute density, gas at 101,325 kPa and 0°C	1,784 kg/m ³
Flammability	N/A

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Uses and Features

- Argon is used in plasma jet torches
- The high temperature preparation, refining and fabrication of many materials must be carried out in an argon atmosphere
- Argon is used as a shielding for GTAW applications and for GMAW of aluminium
- Argon is used for purging applications when an inert atmosphere is required.

Precautions in Use

- Use only approved pressure rated equipment
- Use only in well ventilated areas
- Open cylinder valve slowly
- Close cylinder valve when not in use
- Only properly instructed people should handle this gas
- Never allow oil or grease on a cylinder or valve
- Cylinders should be secured from falling over
- Refer to MSDS for more information.

Material Compatibility

- Argon is non-corrosive and so any common metal is acceptable, provided the equipment is designed to withstand process pressure.

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