



ARCAL™ : the Air Liquide solution for shielding gases and mixtures in arc welding
ARCAL™ Prime : The pure solution

Air Liquide's Gas Encyclopedia - Pages: 85 - 114

Applications

TIG and plasma welding of all materials
 MIG welding of aluminium and copper alloys
 Root shielding of all materials
 Plasma cutting
 Forming gas

Transport information

Compressed gases

Proper shipping name	Argon, compressed
UN-Nr	1006
ADR/RID	Class 2
	Classification code 1A

Refrigerated Gases

Proper shipping name	Argon, refrigerated liquid
UN-Nr	1951
ADR/RID	Class 2
	Classification code 3A



Safety Data Sheets

Compressed gas : N° EIGA003A-ARC
 Access: <https://be.airliquide.com/>

Physical information

Molecular weight	39,95 g/mol
Relative density:	
Relative density, gas	1.38 (air=1)
Relative density, liquid	1.4 (water=1)
Relative density, liquefied Gas	1.4 (water=1)
Colour	Colorless
Odor	Odorless
CAS number	7440-37-1

Properties

Hazards identification: Contains gas under pressure; may explode under the effect of heat. Asphyxiant in high concentrations.

Flammability range: Non-flammable

Personal protection: Ensure adequate ventilation



Cylinder equipment

Valve fittings

ALTOP / EXELTOP: Quick connector
 Cylinder: B4 - IS 21.7 x 1.814 right-hand male
 Bundle: WW 1 1/8 right-hand male

Shoulder colour:

Dark green (RAL 6001)



Product Specifications

Global purity (% Vol. abs) Ar	Impurities (ppm v/v)		Supply mode	Packaging size	Pressure	Capacity	Product reference
≥ 99,998 %	H ₂ O (5 bar)	≤ 5 ppm v/v	Cylinder	33L EXELTOP	300 bar	10 m ³	I2013L33E3A001
	O ₂	≤ 5 ppm v/v	Cylinder	50L ALTOP	200 bar	10,7 m ³	I2013L50A2A001
	N ₂	≤ 10 ppm v/v	Cylinder	50L SMARTOP	200 bar	10,7 m ³	I2013L50S2A001
			Bundle	V12*50L	200 bar	128 m ³	I2013V12R2A001
			Bundle	H27*50L	200 bar	289 m ³	I2013H27R2A001

Additional information

Product compliant with EN ISO 14175-I1-Ar Standard (welding application)

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