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Specialty Gases



Air Liquide offers complete and innovative solutions to meet your most stringent quality and traceability needs, to support your operations in quality, process control, safety detection, industrial emission monitoring or performing research and development.



We deliver you safely a wide range of gases

- **Pure Gases**
 - Argon (Ar), Helium (He), Nitrogen (N₂), Oxygen (O₂), Hydrogen (H₂), Nitrous Oxide (N₂O), Carbon Dioxide (CO₂), Acetylene (C₂H₂)
 - Noble Gases
- **Standard/ Calibration mixture**
 - Gas and liquid phase calibration mixtures in refillable, non-refillable & piston cylinders
- **Gaseous Chemicals**
 - Ethylene Oxide (ETO), Sulphur Hexafluoride (SF₆), Carbon Monoxide (CO), Ammonia (NH₃), Methane (CH₄), Ethane (C₂H₆), Ethylene (C₂H₄), Propane (C₃H₈), Propylene (C₃H₆), Butane (C₄H₁₀)

We provide you with

- Certificates of Conformity (CoC)
- Material Safety Data Sheets (SDS)
- Certificates of Analysis (CoA) upon request



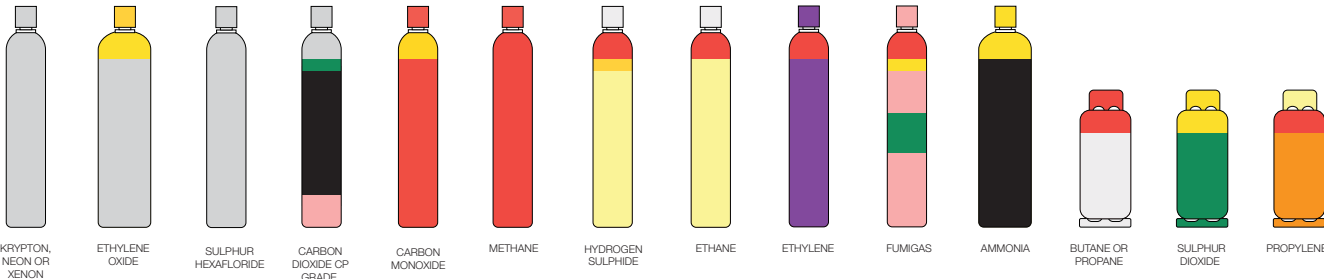
We offer a complete turnkey installation service for lab requirement

Pressure regulators, gas panels, gas handling equipments and installation service to ensure the integrity of the gases while delivering them safely to customer point of use

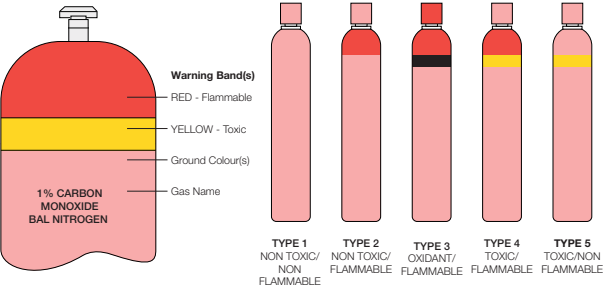


SPECIAL GASES CYLINDER Identification Chart

Gaseous Chemicals



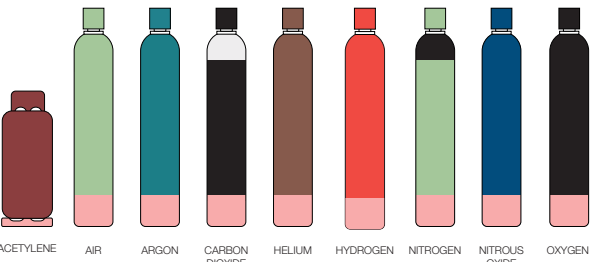
Standard Gas Mixture



Cylinder Outlet Valves

	F/RH 5/8" BSPT Side Outlet, BS 3 Argon/ Air/ Helium/Oxygen /Nitrogen		1 1/16" 20 TPI RH Side Outlet - Chromed, BS13 Nitrous Oxide (Handwheel Type)
	0.860" 14 TPI M/RH Side Outlet, BS 8 Carbon Dioxide (Handwheel Type)		[A] 3/8" RH External Side Outlet, BS14 Flat Seal with Washer [B] 3/8" LH External Side Outlet, BS15 Flat Seal with Washer

Purified Gases
ALPHAGAZ™ Cylinder Identification Colours



Specifications - Purified Gases
ALPHAGAZ™

GAS TYPE	GRADE	CYLINDER WEIGHT, SIZE & DIMENSION			PRESENCE OF IMPURITIES						
		WATER CAPACITY (LITRES)	CYLINDER CAPACITY	GAS PRESSURE (BAR)	PURITY	H ₂ O	O ₂	TOTAL C ₂ H ₄	CO ₂	H ₂	N ₂
C ₂ H ₂	ALPHAGAZ™ 1	40	6.0m ³	22	99.8% (min)	<700.0 VFM	-	-	-	-	-
AIR	ALPHAGAZ™ 1	50	9.7m ³	200	NA	<3.0 PPM	21.0 ±1%	<5.0 PPM	-	-	-
Ar	ALPHAGAZ™ 1	50	10.4m ³	200	99.999%	<3.0 PPM	<2.0 PPM	<0.5 PPM	-	-	-
CO ₂	ALPHAGAZ™ 1	47	25.0kg	-	99.8%	<20.0 PPM	-	-	-	-	-
He	ALPHAGAZ™ 1	50	9.1m ³	200	99.999%	<3.0 PPM	<2.0 PPM	<0.5 PPM	-	-	-
H ₂	ALPHAGAZ™ 1	47	6.5m ³	150	99.999%	<3.0 PPM	<2.0 PPM	<0.5 PPM	-	-	-
N ₂	ALPHAGAZ™ 1	50	9.4m ³	200	99.999%	<3.0 PPM	<2.0 PPM	<0.5 PPM	-	-	-
O ₂	ALPHAGAZ™ 1	50	10.4m ³	200	99.8% 99.999%	<0.5 PPM	-	<0.1 PPM	<0.1 PPM	<0.1 PPM	<4.0 PPM
N ₂ O	ALPHAGAZ™ 1	47	15.0kg	83	99.9%	<10.0 PPM	-	<0.5 PPM	-	-	-

Gas pressure and content may vary subject to cylinder size quoted.

ALPHAGAZ 1
The commitment to quality for % to ppm analysis

Ar	Argon	H ₂ O	Water
CO	Carbon Monoxide	He	Helium
CO ₂	Carbon Dioxide	N ₂	Nitrogen
C ₂ H ₄	Hydrocarbons	N ₂ O	Nitrous Oxide
C ₂ H ₂	Acetylene	O ₂	Oxygen
H ₂	Hydrogen		

ALPHAGAZ 2
The commitment to highest purity for ppm to ppb analysis



ALPHAGAZ products are:
DEDICATED
EASY TO CHOOSE
EASY TO USE
SAFE
COST EFFECTIVE



- **Non removable « open » white cap** for safety and ergonomics
- **Non return / Residual pressure valve** to avoid product pollution
- **Plastic plug/ thermal shrink** to guarantee product inviolability
- **Product tag with product specification and batch N°** for products guarantee and traceability