



#### Contact Us:

Air Liquide Malaysia Sdn. Bhd. (774107-X)

#### Main Office

C-31-6, Jaya One, No. 72A, Jalan University Petaling Jaya, 46200 Selangor Darul Ehsan

Phone: (+603) 7947 5688 Fax: (+603) 7960 1601 / 1602

#### Melaka Plant

Lot PT2317 No. 21, Jalan PTB 1 Kawasan Perindustrian Tangga Batu Mukim Sungai Udang, 76400 Melaka

Phone: (+606) 351 3510 Fax: (+606) 351 3511

#### **Customer Service Centre**

Phone: (+603) 7947 5666 Fax: (+603) 7960 1601 / 1602 Email: csc.alm@airliquide.com

#### Johor Office

1, Jln Mutiara Emas 5/7 Taman Mount Austin, 81100, Johor Bahru Phone: (+607) 353 7188 Fax: (+607) 353 8232

#### **Penang Office**

No. 1, Jalan Sungai Tiram 2 Bayan Lepas, 11900 Pulau Pinang

Phone: (+604) 641 3752 Fax: (+604) 641 3057



Present in 80 countries, Air Liquide provides industrial and medical gases and related services. The Group offers innovative solutions based on constantly enhanced technologies. These solutions, which are consistent with Air Liquide's commitment to sustainable development, help to protect life and enable our customers to manufacture many indispensable everyday products. Founded in 1902, Air Liquide has more than 46,200 employees. The Group has successfully developed a long-term relationship with its shareholders built on trust and transparency and guided by the principles of corporate governance. Since the publication of its first consolidated financial statements in 1971, Air Liquide has posted strong and steady earnings growth. Air Liquide is listed on the Paris stock exchange and is a component of the CAC 40 and Eurostoxx 50 indices (ISIN code FR 000120073)

#### The information listed is accurate at the time of print.

# **Specialty Gases**







my.airliquide.com

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 (N<sub>2</sub>), Oxygen (O<sub>2</sub>), Hydrogen (H<sub>2</sub>), Nitrous Oxide (N<sub>2</sub>O), Carbon Dioxide (CO<sub>2</sub>), Acetylene (C<sub>2</sub>H<sub>2</sub>)
- Noble Gases

#### • Standard/ Calibration mixture

Gas and liquid phase calibration mixtures in refillable, non-refillable & piston cylinders

#### • Gaseous Chemicals

Ethylene Oxide (ETO), Sulphur Hexafluoride (SF $_6$ ), Carbon Monoxide (CO), Ammonia (NH $_3$ ), Methane (CH $_4$ ), Ethane (C $_2$ H $_6$ ), Ethylene (C $_2$ H $_4$ ), Propane (C $_3$ H $_6$ ), Propylene (C $_3$ H $_6$ ), Butane (C $_4$ H $_1$ 0)

#### 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

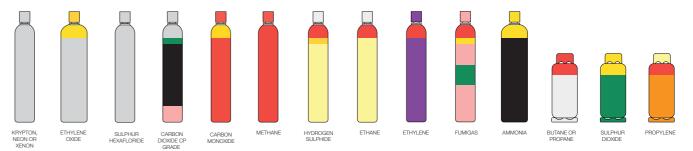
Pressure regulators, gas panels, gas handling equipments and installation service to ensure the integrity of the gases while delivering them safely to customer point of use



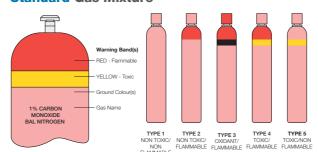


## SPECIAL GASES CYLINDER Identification Chart

#### **Gaseous Chemicals**



#### **Standard Gas Mixture**



## Purified Gases ALPHAGAZ™ Cylinder Identification Colours





# 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

#### **Cylinder Outlet Valves**

<b>-</b>										
	F/RH 5/8" BSPT Side Outlet, BS 3 Argon/ Air/ Helium/Oxygen /Nitrogen F/LH 5/8" BSPT Side Outlet, BS 4 Acetylene/Hydrogen (Handwheel Type)		11/16" 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							

## Specifications - Purified Gases ALPHAGAZ™

		CYLINDER WEIGHT, SIZE & DIMENSION			PRESENCE OF IMPURITIES						
GAS TYPE	GRADE	WATER CAPACITY (LITRES)	CYLINDER CAPACITY	GAS PRESSURE (BAR)	PURITY	H <sub>2</sub> O	O <sub>2</sub>	TOTAL C <sub>N</sub> H <sub>M</sub>	CO, CO <sub>2</sub>	H <sub>2</sub>	N <sub>2</sub>
C <sub>2</sub> H <sub>2</sub>	ALPHAGAZ™ 1	40	6.0m <sup>3</sup>	22	99.8% (min)	<700.0 VPM	-	-	-	-	-
AIR	ALPHAGAZ™ 1	50	9.7m³	200	NA	<3.0 PPM	21.0 ±1%	<5.0 PPM	-	-	-
Ar	ALPHAHAZ™ 1	50	10.4m³	200	99.999%	<3.0 PPM	<2.0 PPM	<0.5 PPM	-	-	-
CO <sub>2</sub>	ALPHAGAZ™ 1	47	25.0kg	-	99.8%	<20.0 PPM	-	-	-	-	-
Не	ALPHAGAZ™ 1	50	9.1m³	200	99.999%	<3.0 PPM	<2.0 PPM	<0.5 PPM	-	-	-
H <sub>2</sub>	ALPHAGAZ™ 1	47	6.5m³	150	99.999%	<3.0 PPM	<2.0 PPM	<0.5 PPM	-	-	-
N <sub>2</sub>	ALPHAGAZ™ 1	50	9.4m³	200	99.999%	<3.0 PPM	<2.0 PPM	<0.5 PPM	-	-	-
O <sub>2</sub>	ALPHAGAZ™ 1 ALPHAGAZ™ 2	50	10.4m³	200	99.8% 99.999%	<3.0 PPM <0.5 PPM	-	- <0.1 PPM	- <0.1 PPM	- <0.1 PPM	- <4.0 PPM
N <sub>2</sub> 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

#### ALPHAGAZ 2

The commitment to highest purity for ppm to ppb analysis

