

Experis[®] mixtures for function testing and calibration of gas detectors

The periodic function, or bump testing, and calibration of gas detection equipment is critical to workforce safety and plant protection. Air Products' Experis[®] range of speciality gases deliver certified, traceable, and stable mixtures in a wide range of package options to support this need.

The Experis[®] range incorporates all commonly used calibration gas mixtures. The most popular choice is the non-refillable, or disposable canister, favoured for its ease of use and portability. Canisters enable tests to be carried out in the field as well as in the workshop.



Industries we serve

The Experis[®] calibration and test gas range covers all the gas hazards typically found in the in the following industries, and many more:

- Agriculture
- Aviation
- Beverage production
- Chemical
- Fire service
- Food production
- Gas utilities
- Hazardous materials
- Metal production
- Manufacturing
- Mining
- Marine / Shipyard
- Nuclear
- Oil & Gas
- Petrochemicals
- Pulp & Paper
- Pharmaceuticals
- Public works
- Water treatment
- Metal fabrication

For full details please refer to our comprehensive product list:
[Non-refillable canisters standard product list \(pub#250-16-004EU\)](#).

Stability and shelf life

Gas mixture stability and shelf life are critical for reliable and accurate gas detection. The Experis[®] calibration and test gas mixture range guarantees product stability of up to 5 years. Advanced canister preparation techniques, high integrity filling manifolds and the use of ultra-high purity raw materials all contribute to the long term stability of our gas mixtures.

Non-refillable canisters	
✓	Ideal compromise between gas capacity and portability
✓	Fast and efficient delivery
✓	Certificates of Analysis (C.O.A) supplied as standard
✓	Customised product labelling available






Canister specification

	Aerosol	34L	58L	110L
Water capacity	1.0 L	0.9 L	0.85 L	1.6 L
Pressure	10 Bar	34 Bar	69 Bar	69 Bar
Dimensions (height x diameter)	265 mm x 73 mm	283 mm x 74 mm	278 mm x 75 mm	358 mm x 90 mm
Empty weight	108 g	474 g	620 g	1160 g
Valve outlet	7/16" (28 NS/2 Male)	5/8" (18UNF C10)	5/8" (18UNF C10)	5/8" (18UNF C10)
Material	Aluminium alloy	Aluminium alloy	Aluminium alloy	Aluminium alloy
Regulatory compliance	75/324/EEC DOT39*	ISO 11118 π marked DOT39*	ISO 11118 π marked	ISO 11118 π marked
Gas type	All non-reactive Some reactive	All mixture types	All mixture types	All mixture types

* US Department of Transport (DOT)

Gas control equipment

To complement our range of calibration and test gases we offer a diverse portfolio of gas control equipment, developed specifically for non-refillable canisters. Please contact us for information on the full range.

	Type	Description	Product number	Compatibility with canister type			
				Aerosol	34L	58L	110L
	Fixed-flow regulator (plated brass)	These units are preset to deliver gas at a fixed flow rate. Standard flow rates include 0.3, 0.5, 1.0, 1.5, 2.0, and 2.5 lpm. Other fixed flow rates are also available. Ideal for non-corrosive gases. The pressure gauge shows the canister contents and a short length of polyurethane tubing is supplied.	198840 : 0.3 lpm 186414 : 0.5 lpm 198842 : 1.0 lpm 198841 : 1.5 lpm 198322 : 2.0 lpm 198481 : 2.5 lpm	n/a	●	●	●
	Trigger regulator	These units are preset to deliver gas at a flowrate of 0.5, 1.0 or 6.0 lpm or unrestricted. Pressing the trigger activates the regulator and dispenses gas. It can be locked in the "on" position to achieve continuous gas flow. The pressure gauge shows the contents. Features a 4mm OD straight connection.	198251: 1.0 lpm	n/a	●	●	●
	Demand flow regulator (plated brass)	Designed for instruments fitted with a pump. The regulator flow matches that demanded by the instrument. It negates separate accessories such as T-pieces and sampling bags, and avoids wasted gas. The pressure gauge shows the canister contents.	198329: 0–5.0 lpm	n/a	●	●	●

Gas mixtures in refillable cylinders are also available and are ideal for applications where greater gas volumes are required. The most commonly selected are the 2 L and 7 L water capacity cylinders.



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