

Summary DETECTAGAS® cylinders are disposable or refillable gas mixtures for the calibration and bump testing of fixed and portable gas detector monitors for industrial hygiene purposes. These systems are used to monitor gases in the air to ensure a workplace is safe from toxins and flammable or explosive atmospheres for employees, contractors and visitors.

Key Legislation [AS/NZS 2865 - Confined Spaces](#)

This standard outlines the requirements and procedures to ensure the health and safety of any persons required to enter or work in a confined space.

For the purposes of this standard, a person whose head (i.e. the breathing zone or upper body) is within a confined space is considered to have entered the confined space

[AS/NZS 61779 – Electrical apparatus for the detection and measurement of flammable gases](#)

Guide for the selection, installation, use and maintenance of apparatus for the detection and measurement of flammable gases.

Under section 9.2.2 (Portable and transportable gas detection apparatus), subsection b (Response (sensitivity) checks and calibrations):

Regarding calibration, portable and transportable gas detection apparatus should be:
(iv) Response tested (or re-calibrated) immediately before each occasion of use.

Common Mixtures

MIXTURE	SIZE	PART NUMBER
10ppm Sulphur Dioxide in Nitrogen	58L	294216305NR
25ppm Hydrogen Sulphide in Nitrogen	58L	294221905NR
10ppm Hydrogen Cyanide in Nitrogen	58L	294216005NR
2.5% Methane (LEL) in Air	100L	294218903NR
50% Methane in Nitrogen	58L	294224705NR
100ppm Carbon Monoxide 2.5% Methane 15% Oxygen 40ppm Hydrogen Sulphide in Nitrogen	34L	294513710NR
100ppm Carbon Monoxide 2.5% Methane 18% Oxygen 15ppm Hydrogen Sulphide in Nitrogen	34L	294513510NR
Nitrogen 99.99% (n4.0)	100L	294131103NR

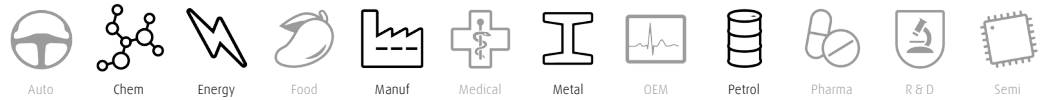
Other mixture components include Chlorine, Ammonia, Hydrogen Chloride, Carbon Monoxide, Ethylene Oxide, Nitrogen Dioxide, Nitric Oxide, Ethanol, Hydrocarbons (including LEL or UEL for Pentanes Propane, etc), Halocarbons, Hydrogen and Oxygen.

Product Specification

	REACTIVE COMPONENTS	NON-REACTIVE COMPONENTS
Uncertainty	Batch Tested ±5% preparation tolerance	Batch Tested ±5% preparation tolerance
Shelf Life	6-24 months	12-36 months
Cylinder Sizes	34L, 58L and 100L	34L, 58L and 100L



Common Industries



Oil rigs and platforms, oil refineries, petrochemical plants, steel industry, fire brigades, storage areas, power generation sites, waste disposal on landfill sites and mining industry.

Common Detectors

PORTABLE PROTECTION EQUIPMENT

- Personal monitor
- Flammable monitor

FIXED PROTECTION EQUIPMENT

- Single or Multi head detection monitor
- Carbon Dioxide monitor

Catalytic Sensory System

Used for flammable gas detection in the monitoring of the Lower Explosive Limit (LEL) and Upper Explosive Limit (UEL).

Electrochemical Sensory System

Used for the detection of toxic gases and oxygen levels.

Infra-red Absorption Sensory System

Uses Infra-red radiation to detect a range of components, including Carbon Dioxide (CO₂), Carbon Monoxide (CO) and Methane (CH₄).

Benefits

- Common products stocked in Australia with in-house testing of H₂S for guaranteed stability.
- Disposable cylinders can be returned with a pre-paid strip and strip label ensuring an environmentally friendly solution.
- Next day dispatch for common products.
- NIST traceable mixtures available.

Regulators

Preset Constant Flow Regulators

With unique diaphragm technology, these regulators will hold their preset flow, even as the cylinder pressure is depleted.

Demand Flow Regulators

Designed for the Environmental and Industrial Hygiene markets for instruments with sample draw pumps this regulator overcomes the inconvenience of using sample bags or T-assemblies ensuring sensor repeatability.

100 SERIES

- Passivated coating suitable for reactive components
- Constant Flow Regulator
- C-10 or CGA 600 inlet type
- Multiple outlet fittings available
- Passivated nickel plated construction
- 0.25, 0.4, 0.5 and 1.0 liter per minute fixed flow rate

300 SERIES

- Stainless Steel diaphragm
- Demand Flow Regulator
- C-10 or CGA
- 3/16" hose barb outlet fitting
- Nickel plated brass
- 0.25 to 10 liter per minute (variable)

For more information, contact your local Scientific Specialist or our dedicated Scientific Customer Engagement Centre. In Australia call **1800 658 278** or email at scientific@boc.com, for New Zealand call **0800 100 949** or email scientificNZ@boc.com.