

# NON-REFILLABLE CYLINDERS

## PRECISION TEST AND CALIBRATION GAS

### KEY FEATURES AND BENEFITS

- Total in-house manufacture affording availability of an extensive range of standard and custom mixtures
- Broad range of standard gas mixtures held in stock for immediate availability
- Range of lightweight non-refillable cylinders suitable for reactive and non-reactive gas mixtures
- Portable, convenient and easy to use
- Blended gravimetrically for maximum accuracy
- Cylinders can be readily exported and transported by air, road or sea
- No rental charges
- Comprehensive range of complimentary, easy to use gas handling equipment and accessories available
- Cylinders are compliant with appropriate current European standards and legislation



Custom and standard precision gas mixtures and pure gases are available from CryoService in a range of lightweight, aluminium non-refillable cylinders, ideal for applications where portability is paramount. Gas mixtures are blended gravimetrically, (generally according to the principals of ISO6142) and when combined with our advanced cylinder preparation techniques ensure mixture accuracy, optimum stability and maximum shelf life.

CryoService gas mixtures are primarily used for checking and calibrating the function of detectors and instruments used in the following applications:

- Flammable gas detection
- Toxic gas detection
- Refrigerant gas detection
- Ethanol breath testing
- Gas chromatography
- Food atmosphere analysis
- Medical gas analysis
- Environmental monitoring

The portfolio of available mixture types cover the whole range from simple LEL binary mixtures through to laboratory standards featuring complex blends of multiple components at low ppm levels.

### 1. Speed

As well as carrying extensive stocks of commonly used mixtures (especially those synonymous with gas detection applications) CryoService can blend components to provide a tailored solution for bespoke mixture requests in days.

### 2. Quality






The total manufacturing solution ensures complete quality control from the arrival of the raw materials through to the laboratory that carries out final QC checks and analysis of the finished gas mixtures.

### 3. Maximum Traceability

Because every pre-mix blended for decanting into non-refillable cylinders is individually certified and cross referenced every time it is used, traceability to National Standards, as well as full manufacturing traceability is assured.

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Cylinder Gas Capacity (litres)	12	20	34	58	110
Pressure (Bar/psig)	12/180	20/300	34/500	34/500	68/1000
Size (mm)	240 x 76	240x76	270x80	361x89	361 x 89
Weight (Kg)	0.2	0.2	0.52	1.05	1.05
Water capacity (litres)	0.97	0.97	1.05	1.72	1.72
Valve Outlet	7/16" 28 NS/2 male	7/16" 28 NS/2 male	5/8" 18 UNF C10	5/8" 18 UNF C10	5/8" 18 UNF C10
Regulatory Compliance	ISO1111 8	ISO1111 8	EN12205 *	EN12205 *	EN12205 *
Standard Accuracy of Nominal Concentration	+/-10% or 2ppm (whichever is the greater)	+/-10% or 2ppm (whichever is the greater)	+/-5% or 2ppm (whichever is the greater)	+/-5% or 2ppm (whichever is the greater)	+/-5% or 2ppm (whichever is the greater)
Improved Accuracy with C of A	+/-2% or 2ppm (whichever is the greater)	+/-2% or 2ppm (whichever is the greater)	+/-2% or 2ppm (whichever is the greater)	+/-2% or 2ppm (whichever is the greater)	+/-2% or 2ppm (whichever is the greater)

\* it is a requirement of EN12205 that non-refillable cylinders feature a non-refillable valve in accordance with EN13340

### Additional Services

1. Certificates of Analysis can be supplied on request.
2. Material Safety Data Sheets (MSDS) are available in electronic format for all gases and mixtures supplied by CryoService.
3. Quotations, current and historic order information and application advice are available by calling one of our highly trained sales advisors or by email to [sgmsales@cryoservice.co.uk](mailto:sgmsales@cryoservice.co.uk).