

# SPECIAL GASES AND MIXTURES

## PRECISION GAS MIXTURES IN REFILLABLE CYLINDERS

### KEY FEATURES AND BENEFITS

- Precision gas mixtures and pure gases available in a range of refillable and non-refillable cylinders
- Mixtures blended gravimetrically in our own in-house laboratory
- Rapid turnaround for bespoke mixture requests
- Comprehensive stocks of mixtures in non-refillable cylinders for rapid despatch
- Full range of complimentary gas control equipment and accessories
- Highly trained staff to provide fast, friendly and efficient product and application advice

*The CryoService Special Gases and Mixtures Division is dedicated to the supply of precision gas mixtures used as calibration standards in a wide range of gas monitoring, detection and analysis applications.*



**Manufacture** - Mixtures are blended gravimetrically in an in-house laboratory using highly accurate balances routinely calibrated by a UKAS accredited authority to ensure the highest degree of accuracy. Each mixture is custom blended according to a unique recipe and an extensive library of gases allows almost limitless combinations of components and concentrations from the simplest percentage level binary mixture through to complex standards containing multiple hydrocarbon components, those containing reactive gases and parts per million concentrations.

Cylinders are individually prepared according to the gases they are to receive using various proprietary processes to promote stability and maximise shelf life.

QC analysis is performed by qualified chemists using a range of standard reference materials and regular benchmarking and participation in relevant industry schemes ensure that CryoService analysis and analytical techniques remain at the forefront for the markets served.

**Certification** - Gas standards are supplied with an individual certificate of analysis confirming the actual concentration of each component together with a statement describing the traceability route to national standards. Whether it's a routine calibration standard with an accuracy of  $\pm 2\%$  or one requiring an improved accuracy or full uncertainty budget CryoService has the certification option to suit. For gas mixtures routinely used in emissions monitoring CryoService offer a full range with calibration certificates in accordance with ISO17025.

**Cylinder Fleet** - The refillable range comprises a modern fleet of high pressure aluminium cylinders in a wide range of sizes allowing package optimisation according to gas yield, economy and portability. Apart from traditional rental, cylinders are available for purchase and CryoService also offer a refilling service for customer owned cylinders together with refurbishment, retesting and exchange packages.

**Service and After Sales Support** - As befits a specialist in the field CryoService customer support is second to none and unrivalled lead times run parallel with trained knowledgeable staff able to provide immediate product and application advice, quotations, plus order progress and history via the most effective communication routes.

In addition to the gas mixtures themselves the refillable range encompasses a huge selection of complimentary gas control equipment and ancillary items.

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