

THE LINDE GROUP

*Linde*

# Enhanced Shelf Life with HiQ<sup>®</sup> 60 Specialty Gases

including SPECTRA-SEAL<sup>®</sup>



# The everyday steps of today's economy



## What you need from your gas supplier;

- Gas products that are reliable.
- Gas products that are stable
- Gas products which can perform for an **extended** period of time
- A promise from my supplier that the product will meet my expectations.

# Specialty Gases –Consider

- The most important characteristic in any calibration gas mixture is the reported accurate value of the relevant component at time of use.
- Products with a limited shelf life can have significant impact with both accuracy and long-term usability, and often result in additional cylinder change-out and expensive system recalibration procedures.
- **Shelf life can be seen as a manufacturer's confidence in their product over a given period of time.**



## The product dimensions for HiQ® Specialty Gases:

### Package Attributes

- Steel, Stainless Steel, Aluminium, Treated Aluminium
- 50 Litre, 10 Litre, ECOCYL®, MINICAN®
- Correct Valve material, and connection



### Gas Composition

- Gas Purity minimums
- concentration and/or impurity ranges from ppb to %

### Mixture S.T.A.R. Attributes

- S**tability, **T**raceability, **A**ccuracy,  
**R**elative Blend Tolerance



# HiQ® 60 –what is it?

- HiQ® 60 offers an enhanced product range and from The Linde Group.
- HiQ® 60 offers 5 year shelf life on selected pure as well as mixture products.
- HiQ® 60 includes reactive calibrations products offered under our brand SPECTRA-SEAL®
- Standard HiQ® 60 Calibration mixtures are available with up to 5 non reactive components with reported levels from part per million to percent levels.
- High range reactive components available include carbon monoxide, carbonyl sulphide, mercaptans, hydrogen sulphide, nitric oxide, nitrogen dioxide and sulphur dioxide.
- Available reactive components with requirement levels below 1% are offered with Linde SPECTRA-SEAL® products

## The HiQ® 60 Guarantee!

Specialty gases supplied with a HiQ® 60 label will have flat line stability for 60 months from manufactured date. Linde will replace any HiQ® 60 product free of charge if found to be outside the stated certified tolerance variance at time of use, and is within the stated shelf life period.\*

# Certification

Every HiQ® 60 specialty gas will be supplied with an individual product certificate.

- Pure Gas Products supplied with a Certificate of Conformance
- Calibration Mixtures with Certificate of Analysis
- All certificates supplied on water marked paper
- Linde certificates follow ISO 6141 requirements



# HiQ® Specialty Gases Solutions

## Expertise

## Reliability

## Innovation



HiQ® combines high quality products, service, expertise and knowledge giving added value for our specialty gas customers, whenever and wherever they need it.

Our vision is simple: we provide precisely what our customers need, whenever and wherever they need it.

Leading. – as a technology leader, our task is to constantly raise the bar.



# Getting ahead through innovation.

With its innovative concepts, Linde is playing a pioneering role in the global market. As a technology leader, it is our task to constantly raise the bar. Traditionally driven by entrepreneurship, we are working steadily on new high-quality products and innovative processes.

Linde offers more. We create added value, clearly discernible competitive advantages, and greater profitability. Each concept is tailored specifically to meet our customers' requirements – offering standardised as well as customised solutions. This applies to all companies regardless of their size.

If you want to keep pace with tomorrow's competition, you need a partner by your side for whom top quality, process optimisation, and enhanced productivity are part of daily business. However we define partnership not merely as being there for you but being with you. After all, joint activities form the core of commercial success.

Linde – Ideas become solutions.