



**CAPTURING  
THE WORLD  
OF HIGH  
PURPOSES**

[www.ingas.ua](http://www.ingas.ua)

**INGAS™**

# Company profile



## Since 1994 year:



Production of high purity rare gases:  
Xenon, Krypton, Helium, Neon



Full range of services



Attractive prices



Successfully works on the market of  
rare gases



Technical gases, production of gas  
mixtures, calibration gas mixtures and  
mixtures of special purposes



Meeting of deadlines



High quality products



**New in product line:**  
Neon isotopes  $^{20}\text{Ne}$ ,  $^{21}\text{Ne}$ ,  $^{22}\text{Ne}$

## Multi-level internal structure::

- ▼ Housekeeping department
- ▼ Electrical department
- ▼ Analytical laboratory
- ▼ Tare repair and preparation division
- ▼ Rare gases production division (Krypton, Xenon, Neon)
- ▼ Helium division (Helium)
- ▼ Administration
- ▼ Transportation department
- ▼ Section of technical gases and gas mixtures
- ▼ Construction department

Location in Ukraine

Ingas LLC, Mariupol

Ingas LLC Helium  
division, Odessa



# Products

## ▲ Rare gases

Xe

Xenon

Kr

Krypton

Ne

Neon

He

Helium

He

LiquidHelium



## Rare gases



### Xe Xenon

Xenon	5N	6N
Purity, %	99.999	99.9999
Oxygen, O <sub>2</sub>	≤0,5ppmv	≤0,1ppmv
Nitrogen, N <sub>2</sub>	≤1,0ppmv	≤0,2ppmv
Argon, Ar	≤0,5ppmv	≤0,05ppmv
Hydrogen, H <sub>2</sub>	≤1,0ppmv	≤0,05ppmv
Krypton, Kr	≤1,0ppmv	≤0,1ppmv
Carbon Dioxide + Monoxide, CO <sub>2</sub> +CO	≤0,5ppmv	≤0,05ppmv
C <sub>2</sub> F <sub>6</sub>	≤0,5ppmv	≤0,05ppmv
SF <sub>6</sub>	≤0,5ppmv	≤0,05ppmv
Total Hydrocarbon Content (THC)	≤0,5ppmv	≤0,05ppmv
N <sub>2</sub> O	≤0,5ppmv	≤0,05ppmv
Water, H <sub>2</sub> O	≤1,0ppmv	≤0,1ppmv

### Kr Krypton

Krypton	5N	6N
Purity, %	99.999	99.9999
Oxygen, O <sub>2</sub>	≤0,5ppmv	≤0,1ppmv
Nitrogen, N <sub>2</sub>	≤2,0ppmv	≤0,2ppmv
Hydrogen, H <sub>2</sub>	≤0,5ppmv	≤0,05ppmv
Xenon, Xe	≤2,0ppmv	≤0,1ppmv
Carbon Dioxide + Monoxide, CO <sub>2</sub> +CO	≤0,5ppmv	≤0,05ppmv
CF <sub>4</sub>	≤0,5ppmv	≤0,05ppmv
Total Hydrocarbon Content (THC)	≤0,5ppmv	≤0,05ppmv
N <sub>2</sub> O	≤0,5ppmv	≤0,05ppmv
Water, H <sub>2</sub> O	≤1,0ppmv	≤0,2ppmv

### Ne Neon

Neon	5N	6N
Purity, %	99.999	99.9999
Oxygen, O <sub>2</sub>	≤0,5ppmv	≤0,1ppmv
Nitrogen, N <sub>2</sub>	≤2,0ppmv	≤0,2ppmv
Argon, Ar	≤0,5ppmv	≤0,1ppmv
Hydrogen, H <sub>2</sub>	≤0,5ppmv	≤0,1ppmv
Helium, He	≤2,0ppmv	≤0,1ppmv
Carbon Dioxide + Monoxide, CO <sub>2</sub> +CO	≤0,5ppmv	≤0,1ppmv
Total Hydrocarbon Content (THC)	≤0,5ppmv	≤0,1ppmv
Water, H <sub>2</sub> O	≤1,0ppmv	≤0,1ppmv

### He Helium

Helium, He	5N	6N
Purity, %	99,999	99,9999
Neon, Ne	≤5,0ppmv	≤0,2ppmv
Oxygen+Argon, O <sub>2</sub> +Ar	≤0,5ppmv	≤0,1ppmv
Nitrogen, N <sub>2</sub>	≤2,0ppmv	≤0,2ppmv
Hydrogen, H <sub>2</sub>	≤0,5ppmv	≤0,1ppmv
Carbon Dioxide + Monoxide, CO <sub>2</sub> +CO	≤0,5ppmv	≤0,1ppmv
Total Hydrocarbon Content (THC)	≤0,5ppmv	≤0,1ppmv
Water, H <sub>2</sub> O	≤1,0ppmv	≤0,2ppmv

## Gas mixtures

Welding  
Mixtures

Laser  
Mixtures

Food  
Mixtures

Glass  
pack gas  
Mixtures

Neon  
Sign

## Calibration Gas Mixtures

CGM

## Technical Gases

$N_2$   
Nitrogen

Ar  
Argon

$CO_2$   
Carbon Dioxide

$H_2$   
Hydrogen

$CH_4$   
Methane





## Engineering

Ingas LLC provides a full range of services concerning maintenance and adjustment of existing cryogenic units, as well as designing of new ones. Our staff has a huge experience in this area having worked with Air Separation Units of different manufacturers.

Implementation of basic and detailed engineering (development of principal schemes, selection of equipment, preliminary layout of equipment)



Technical management, setting up of any new mounted air separation unit



Design of units and systems for separation and purification of gas mixtures;

Design of units for gasification of cryogenic products with cylinders filling



Commissioning works

Ingas LLC  
engineering  
services

HIGH

QUALITY  
LEVEL



## Quality control

Analytical Laboratory of Ingas LLC is certified according to ISO 17025

We provide a quality and control system with no chance to any molecule or unexpected impurities

Only cutting-edge fleet of analytical equipment and advanced methods for gas analyzing

## Equipment

- Gas chromatographs produced by "Agilent", "Gow Mac" and "Perkin Elmer"
- Mass spectrometer produced by "Mettrek"

- Infrared spectrometer "FT801" and other analyzers

- Trace Level Moisture Analyzer Spark H2O by "Tiger optics", the USA



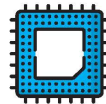


Capturing the world  
of high purposes

## Using our products



Lighting



Electronics



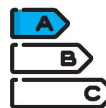
Medicine



Automotive



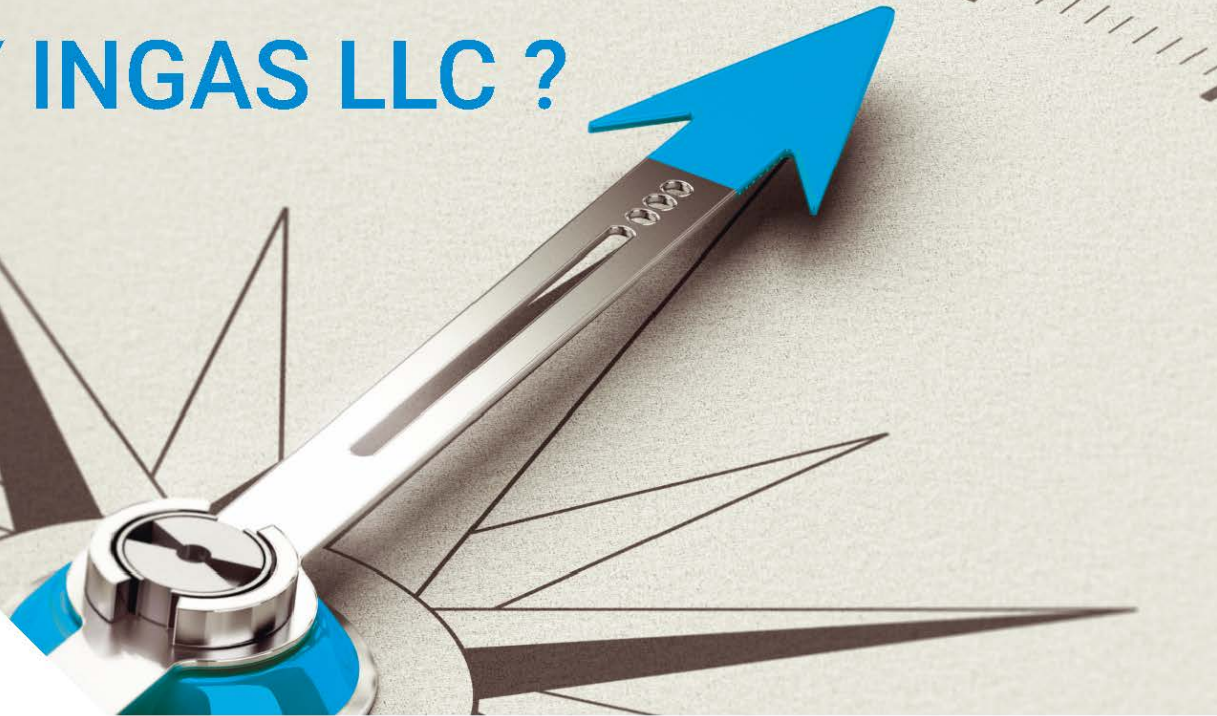
Aerospace industry



Energy saving



# WHY INGAS LLC ?



*MORE THAN 25 YEARS OF  
EXPERIENCE ON THE MARKET  
OF RARE GASES*

*OWN EQUIPMENT ON STEEL  
PLANTS AND GUARANTEED CRUDE*

*PROFESSIONAL STAFF*

*RELIABLE PARTNERS*

*OWN TECHNOLOGICAL  
DEVELOPMENTS*

*FULL RANGE OF ENGINEERING  
SERVICES*

*COMPLETE PRODUCTION CYCLE:  
FROM CRUDE TO END PRODUCTS*

*HIGH QUALITY PRODUCTS AND  
SERVICES*



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