



GAS CATALOG



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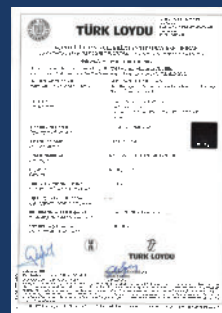
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CERTIFICATES





ABOUT US

Koyuncu Ticaret Anonim Şirketi entered the sector in 1977 as an industrial gas producer and supplier. Focusing on welding gas mixtures in the 1990s, it served gas companies all over Turkey in a leading position in this field for many years.

Koyuncu, which turned its main activity into gas equipment import and export in the early 2000s, has Turkey representation of many international companies. In addition to gas equipment, it also sells liquefied industrial gas to neighboring countries with semi-trailer and ISO tanks.

Koyuncu has more than 80 expert personnel, of which 15 are engineers. "Special and High Purity Gases Facility" of our company, which has a modern production area of 5 thousand square meters in Dilovası-Gebkim Chemists Specialized Organized Industrial Zone, as well as its head office of 2 thousand square meters in Dudullu Organized Industrial Zone, meets the demands of not only our country but also abroad.

In order to increase our production capacity in line with our export targets increasing every year, in our 3rd facility of 5 thousand square meters, which we started to build in Dilovası Organized Industrial Zone and will be operational in 2022, robotic MIG welding systems, laser cutting, CNC and TIG welding lines, as well as assembly, hydrostatic test systems, automatic sandblasting and electrostatic powder coating conveyors will take place. With our new facility, which will be the first and full-range cylinder renewal center in Eastern Europe, we aim to serve not only to Turkey but also to neighboring countries.



SPECIAL GAS MIXTURES

In our GEBKİM-Dilovası facility, we fill many gas components and a wide range of gas mixtures precisely in % (per cent), PPM (per million) and PPB (per billion) orders with the ISO 6142 method.

You can
contact our
sales team
for your
order that
suits your
needs.

We meet the needs of many sectors like petrochemistry, chemical production, pharmaceutical and raw material production, automotive, engine emission tests, R&D laboratories, continuous measurement emission and environmental laboratories, scientific research laboratories of universities medical applications and mining metalworking with the calibration and mixing gases we fill.



17025 Accredited Calibration Mixing Gases

In our ISO IEC 17025 Accredited laboratory, we fill and analyze the calibration gases in line with the requests of our customers who need traceable gas for emission measurement environmental laboratories.



Calibration
TS EN ISO/IEC 17025
AB-0236-K



HIGH PURITY GASES

We serve Helium, Argon, Nitrogen, Hydrogen, Dry Air, Carbon Dioxide, Oxygen and similar gases with 5.0, 5.5 and 6.0 Grade purity, pressurized cylinders and liquid containers.

We carry out the filling processes of these gases into cylinders and liquid cylinders at our Dilovasi facilities and certify them in our laboratory. We can fill the gases we offer in various cylinder sizes, and we procure the gases that cannot be filled in Turkey from our main suppliers abroad.



HIGH PURITY GASES

Acetylene	Ethylene	Carbon Monoxide	Oxygen
Argon	Helium	Chlorine	Propane
Ammonia	Hydrogen	Krypton	Propylene
Nitrogen	Hydrogen Sulfide	Dry Air	Silane
Boron Tri Chloride	Isobutane	Methane	Sulfur Dioxide
Butane	Isobutylene	Neon	Sulfur Hexafluoride
Ethane	Carbondioxide	Nitric Oxide	Xenon

Some of special gases in our product range are specified in the chart above.

All of the special gases are filled with the ISO 6142 method in our facility and an analysis certificate is issued in accordance with ISO 6141 in our 17025 accredited laboratory.



HIGH PURITY HELIUM

It is mostly used as carrier gas in gas chromatograph devices in laboratory applications.

“

As Koyuncu Gaz, we offer %99.999 (5.0 Grade) High Purity and %99.9999 (6.0 Grade) Ultra High Purity Helium gases to our customers with a special analysis certificate for each cylinder.

”



For 5.0 Grade, 5.5 Grade and 6.0 Grade purity;

CYLINDER VOLUME	CYLINDER TYPE	PRESSURE	GAS VOLUME
10 LT	Steel	150 Bar	1,4 m ³
10 LT	Steel	200 Bar	1,8 m ³
40 LT	Steel	200 Bar	7,4 m ³
50 LT	Steel	200 Bar	9,2 m ³

LIQUID HELIUM

Helium is an indispensable noble gas for many of today's and future technologies. Helium is used in liquid phase in many sectors such as MRI cooling (MR and NMR), nuclear magnetic resonance, and superconductivity studies, especially in the medical sector.

As Koyuncu Gas we provide liquid helium service with min. %99,999 (5.0 Grade) purity.



“ We fill all brands of MR and NMR devices in the company of our expert MRI technicians. ”



GAS HELIUM (Balloon)



Helium is a valuable element used in many industries such as welding applications and balloon inflation.

Balloon gas is %99,9 pure Helium. It is used in activities such as balloon inflation, especially in entertainment and party decorations.

	7 LT DISPOSABLE	2 LT	5 LT	10 LT	40 LT	50 LT
VOLUME	0,19 m ³	0,37 m ³	0,92 m ³	1,84 m ³	5,61 m ³	9,2 m ³
CYLINDER TYPE	Steel	Steel	Steel	Steel	Steel	Steel
UNIT WATER VOLUME	7 LT	2 LT	5 LT	10 LT	40 LT	50 LT
PRESSURE	27 Bar	200 Bar	200 Bar	200 Bar	150 Bar	200 Bar
BALLOON NUMBER	22	24	60	121	364	606
WEIGHT	2,12 Kg	5,0 Kg	8,0 Kg	12,0 Kg	45,0 Kg	63,0 Kg

G GASES

G Gases or Heater Test Gases are especially used in cookers, combi boilers, etc. They are gas or gas mixtures used to test the heating values of flame-operated products according to the country where they will be sold. We prepare these gases in our Dilovası facilities and present them to our customers.

Gas Code	Substance	Gas Code	Substance
G20	%100 Methane (%99.5-%99.95-%99.995 Purity)	G27.4B	%5 Nitrogen Balance Methane
G21	%13 Propane Balance Methane	G28.3A	%10 Hydrogen+%13 Nitrogen+%17 Ethane Bal. Methane
G23	%7.5 Nitrogen Balance Methane	G28.3B	%10 Hydrogen+%23 Nitrogen+%17 Ethane Bal. Methane
G24	%68 Methane+%12 Propane+%20 Hydrogen	G28.4A	%10 Propane+%10 Hydrogen+%13 Nitrogen Bal. Methane
G25	%14 Nitrogen Balance Methane	G28.4B	%12 Nitrogen+%20 Hydrogen Balance Methane
G25.1	%14 Carbon Dioxide Balance Methane	G30	%50 i-Butane+%50 n-Butane
G25.3	%12 Nitrogen Balance Methane	G31	%100 Propane (%99.5-%99.9 Purity)
G26	%7 Propane+%13 Nitrogen+%80 Methane	G32	%100 Propylene (%99 Purity)
G26.1	%6 Propane+%14 Carbon Dioxide Bal. Methane	G110	%24 Nitrogen+%26 Methane Balance Hydrogen
G26.3	%14 Nitrogen+%22 Ethane Balanced Methane	G112	%24 Nitrogen+%17 Methane Balance Hydrogen
G26.4	%11 Propane+%14 Nitrogen Balance Methane	G222	%23 Hydrogen Balance Methane
G27	%18 Nitrogen Balance Methane	G230	%50 Dry Air+%50 Propane
G27.1	%18 Carbon Dioxide Balanced Methane	G231	%15 Nitrogen Balance Methane
G27.3A	%16 Carbon Dioxide Balanced Methane	G232	%50 Dry Air+%50 Propylene
G27.3B	%4.5 Carbon Dioxide Balanced Methane	G233	%45 Dry Air Balance Propane
G27.4A	%22 Nitrogen Balance Methane	G271	%26 Nitrogen Balance Methane



SF6 GAS (SULFURE HEXAFLUORIDE)

Our company is the main supplier of SF6 gas. The main usage areas of SF6 are as follows:

- In the electrical industry to provide insulation as a circuit breaker and extinguish arcs,
- In medical applications and eye surgeries,
- In order to provide heat and sound insulation in the glass industry,
- In semiconductor manufacturing,
- In magnesium casting in the automotive industry,
- In particle accelerators,
- In electron microscopes,
- In mining,
- In radar applications

****Min. %99.995 Purity***

Our SF6 gas
complies with
IEC 376
(International
Electrotechnical
Commission)
standards.



FOOD GASES

In modified atmosphere (M.A.P.) gas packages, quality, freshness and taste in food products;

- Stored for a long time.
- Prevents the growth of microorganisms.
- Decreases oxidation processes.
- Protects dry products from getting wet, sensitive products from being deformed, and cut products from sticking to each other.



**Specify your product
and let us prepare the
most suitable modified
atmosphere gas (M.A.P)
for you.**



With TSE-ISO-EN 22000 Certificate



We provide the filling of our modified atmosphere packaging (M.A.P.) gases with the Food Safety Management System- ISO 22000 quality standard.

**G - F
TSE-ISO-EN
22000**

Stainless steel central piping system is used in our food gas cylinder bundles to prevent any oxidation and microorganism growth.



COMPANY CODE	GAS TYPE -Recommended Mixture Ratio	PRODUCTS TO BE APPLIED
NITRO MAP C10	10 % CO ₂ + 90 % N ₂	Semi-dried Tomatoes
NITRO MAP C20	20 % CO ₂ + 80 % N ₂	Manti (Dumplings), Börek (Patty), Types of Pasta, Croissant
NITRO MAP C30	30 % CO ₂ + 70 % N ₂	Convenience Food, Soups With Sauce or Soups With Meat, Cooked Meat and Fish
NITRO MAP C35	35 % CO ₂ + 65 % N ₂	Pastırma (Bacon), Salami, Sausage, Ham, Processed Meat Products
NITRO MAP C40	40 % CO ₂ + 60 % N ₂	Baklava, Oiled Fishes, Hard and Soft Cheese, Yoghurt and Milk Products
NITRO MAP C50	50 % CO ₂ + 50 % N ₂	Dough and Uncooked Patty Products
NITRO MAP C60	60 % CO ₂ + 40 % N ₂	Fruit Cake, Dried Dough, Cream Cake
NITRO MAP C70	70 % CO ₂ + 30 % N ₂	Hard and Soft Cheese, Bakery Products
OKSI MAP C20	20 % CO ₂ + 80 % O ₂	Raw Meat
OKSI MAP C30	30 % CO ₂ + 70 % O ₂	Processed Meat (for Color)
OKSI MAP C25 N25	25 % CO ₂ + 25 % N ₂ + 50 % O ₂	Red Meat
NITRO MAP C35 O25	35 % CO ₂ + 25 % O ₂ + 40 % N ₂	White Meat Fishes
NITRO MAP C5 O5	5 % CO ₂ + 5 % O ₂ + 90 % N ₂	Fruits and Vegetables

INDUSTRIAL GASES

PURE GASES

• OXYGEN • NITROGEN • ARGON • CARBON DIOXIDE • HYDROGEN • ACETYLENE

They are the gases obtained as a result of the separation of the air in the atmosphere and liquefaction with some advanced methods. Industrial Gases has an important role in metal production, weld-cut, automotive, foods, electronic, glass metallurgy and chemical industries.

In our Dilovası facility, we offer industrial gases, which we fill with precision, to our customers in cylinder-cylinder bundles, liquid cylinders or cryogenic tanks according to customer demands.

ARC WELDING GAS MIXTURES

We supply gas arc welding mixtures used in metal, machine manufacturing and all industrial applications in steel or aluminum cylinders.

Gas Code	Substance
ARMIX C5O2	%5 CO2 + %2 O2 Balance Ar
ARMIX C12O2	%12 CO2 + %2 O2 Balance Ar
ARMIX C20O2	%20 CO2 + %2 O2 Balance Ar
ARMIX C2.5	%2,5 CO2 Balance Ar
ARMIX C18	%18 CO2 Balance Ar
ARMIX O2	%2 O2 Balance Ar
ARMIX H35	%35 H Balance Ar



You can contact our sales team for our other mixed gases.



As Koyuncu Gaz, we have six, twelve and sixteen manifold types according to customer needs.

LASER GASES

They are mixing gases used in laser cutting countertops.

Laser gases are required to create a laser beam on your countertops.

Some common gas ratios in building a CO2 laser are listed in the table below. You can contact our sales team for the most suitable gas ratios (specified by the company that manufactured your machine) for the use of your laser machine.

Gas Code	Substance
Laser 1	%12 CO2 + %12 N2 Bal. He
Laser 2	%3,4 CO2 + %15,6 N2 Bal. He
Laser 3	%4,5 CO2 + %13,5 N2 Bal. He
Laser 4	%5 CO2 + %55 N2 Bal. He
Laser 5	%1,7 CO2 + %23,4 N2 Bal. He
Laser 6	%5 CO2 + %25 N2 Bal. He
Laser 7	%5 CO2 + %35 N2 Bal. He
Laser 8	%3,4 CO2 + %15,6 N2 Bal. He
Laser 9	%3 CO2 + %32 N2 Bal. He
Laser 10	%6 CO2 + %20 N2 Bal. He
Laser 11	%4 CO + %8 CO2 + %26 N2 Bal. He
Laser 12	%5,4 CO2 + %27 N2 Bal. He
Laser 13	%5 CO2 + %34 N2 Bal. He
Laser 14	%3,14 CO2 + %31,4 N2 Bal. He
Laser 15	%4 CO + %8 CO2 + %28 He Bal. N2

While we supply our liquid oxygen, liquid nitrogen, liquid argon and liquid carbon dioxide products with high consumption and used in different processes, with cryogenic tanks and liquid cylinders we set up at the customer site. We also serve our high consumption customers with **300 bar** special manifolds that are not suitable for tanks.



BULK GAS SALE

We provide the liquid phase with cryogenic liquid trailer and gas phase with jumbo trailer for the demands of our customers with intense gas consumption.

Jumbo Trailer Applications

Gases We Provide with Liquid and Jumbo Trailers;

- Oxygen
- Nitrogen
- Argon
- Helium
- Hydrogen



Cryogenic Liquid Trailer Applications



GAS FREE AND NITROGEN PURGING

Due to its inert nature, nitrogen gas in gas and liquid phases is used in a wide range of applications on land and offshore, in the oil, gas and petrochemical industries. We provide nitrogen services to LPG/LNG vessels and terminals, the oil and gas industry, pipelines and any application where an inert environment is required.

Maritime Industry Applications



MEDICAL GASES

Medical gases are all gases used for medical purposes.

Dozens of gases such as oxygen gas in acute and chronic lung diseases, ethylene oxide in sterilization applications, nitrous oxide in anesthesia applications, liquid nitrogen in cryogenic surgery, medical carbon dioxide in laproscopic operations, lung diffusion gas in respiratory tests are used safely in various medical fields.

The cylinders in which oxygen gas for respiratory purposes are filled are blue in color and must have a white stripe.



MEDICAL GASES







Medical Oxygen	Ethylene Oxide
Medical Nitrogen	Dry Air
Narcosis	Blood Gas
Medical Carbon Dioxide	Liquid Helium
Medical Nitrous Oxide	Pulmonary Function Test Gas



You can contact our sales team for your orders according to your needs.

MEDICAL OXYGEN

Medical oxygen therapy is one of the most important treatments for patients' breathing relief. The main conditions that require medical oxygen therapy are chronic obstructive pulmonary disease (COPD), acute liver disease, respiratory failure, emphysema, chronic bronchitis, severe asthma, end-stage muscle diseases, severe cystic fibrosis, heart diseases and poisoning. Medical oxygen treatment is performed with a medical oxygen cylinder, oxygen therapy device and nasal cannula. We provide the service of liquid oxygen gas with stainless steel mobile tanks or fixed tanks with a capacity of more than one ton.

MEDICAL GAS OXYGEN SUPPLY CONTAINERS			MEDICAL LIQUID OXYGEN SUPPLY CONTAINERS		
PRODUCT	CAPACITY	IMAGE	PRODUCT	CAPACITY	IMAGE
STEEL CYLINDERS	2-5-10 40-50 LT		LIQUID CYLINDER	200-250 LT	
ALUMINIUM CYLINDERS	1-2-3-4-5 10-20-50 LT		MOBILE TANK	1000 2000 3000 LT	
CYLINDER BUNDLES	300 - 600 800 LT		CRYOGENIC TANK	5000 10000 20000 LT.	

**YOU CAN CONTACT OUR SALES TEAM FOR
"OXYGEN THERAPY DEVICE"**



MEDICAL LIQUID NITROGEN

While medical liquid nitrogen is used for the safe storage of medical samples such as blood, plasma and semen or research samples, it is also used by beauty centers for the freezing method in the treatment of warts and other lesions on the skin without the need for surgery.



Incubator Gas (NO)

Respiratory regulating nitric oxide gas mixtures can be used for infants who are still developing in the neonatal unit.

We provide the Ministry of Health approved filling service and supply of these mixtures used.



Blood Gas

Blood gas is a test used to calculate the bicarbonate value and oxygen saturation by measuring the partial pressures of gases such as oxygen and carbon dioxide in the blood, as well as the blood pH, thus determining whether the patient has hypoxemia, acidosis or alkalosis. This test measures how well the body uses oxygen and gets rid of carbon dioxide.

Blood gas analysis provides healthcare professionals with information on the respiratory and metabolic status of their critically ill patients, with measurements of pH, carbon dioxide (pCO₂) and oxygen (pO₂), as well as measurements of electrolytes, lactate and hemoglobin.



Lung Diffusion Gas

We supply the following gas mixtures;

- %16 O₂ + %5 CO₂ + %0.3 CO + %0.3 CH₄ Balance N₂
- %0.3 CO + %0.3 CH₄ + %0.3 C₂H₂ Balance Air
- %0.3 CO + %9 He Balance Air

You can contact our sales team for your incubator gas, blood gas and lung diffusion gas orders.

OTHER MEDICAL AND SPECIAL GASES

Ethylene oxide gas used in sterilization and some calibration gases used in medical devices can be purchased and produced in gas phase tubes at different mixing ratios according to the characteristics of the devices.

Medical Gases

Medical CO₂
Medical Dry Air
Medikal Narcosis

Special Mixture Gases

Ethylene Oxide (ETO)

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