



 **SERALGAZ**
Sanayi Gazları Ticaret A.Ş



About Us

Seralgaz was established in 1996 in İkitelli Industrial Zone and has been selling industrial and medical gas since its establishment.

Our company, which started to sell pure and high quality ammonia gas in 1998, providing pure ammonia and quality service that was missing in the sector until that day. We offer it to our customers with our facilities and vehicle fleet with a daily stock capacity of 50 tons.

In addition, our company, which started to produce 25% concentrated aqueous ammonia, also meets the aqueous ammonia needs of the leading companies in our country with its facilities with a capacity of 500 tons.

Our company has continued to invest in vehicles and cylinders by closely following the market development. It has reached the capacity to serve all domestic and foreign regions with our vehicle fleet consisting of trailers and liquid gas tankers without being dependent on our region.

Our company, which aims to meet all kinds of gas needs of our industrial producers with its honest, principled and quality service since its establishment, provides all kinds of technical support and equipment support for industrial gases. Although it has completed its transportation investments, it continues its investments in order to increase the quality of the service we offer to our valued customers all over our country.

Green Energy and Sustainable Production with Seralgaz

As Seralgaz, we use green energy in production with sustainable energy studies in order to protect nature and future generations. We prefer renewable energy sources, taking into account the environmental impact of wastes in all of our activities and in our production process.

We contribute to this process in which global companies are involved with the understanding of green industry, and we minimize our carbon footprint thanks to our sustainability strategy. We proudly hold the title of Turkey's first green-energy industrial and medical gas filling facility, which we won in 2017 with the solar panels we have built for our production facilities.

Industrial Gases

In our sales of industrial gases, which constitute a large part of our sales; We provide services to sectors such as iron-steel and non-ferrous metal manufacturing, powder metallurgy, heat treatment, production, laser cutting, welded manufacturing.

In addition, we provide special gas mixtures in accordance with the production methods in line with the demands of our customers.

In industrial gases, we serve as cylinders, cylinder bundles, liquid containers according to the demand and consumption of our customers.



Argon Industrial Gases	Acetylene Industrial Gases	Nitrogen Industrial Gases
Hydrogen Industrial Gases	Helium Industrial Gases	Ethylen Industrial Gases
Carbondioxide Industrial Gases	Dry Air Industrial Gases	Oxygen Industrial Gases

Weld Mix

205	220	Argohid Gas
210	Arco Gas	Aro Gas
212	Ark Gas	

Medical Gases

With the medical gas filling, sales and storage authorization certificate within our company, we continue to serve hospitals, clinics and health institutions at full speed. The sales of Medical gases has done with cylinder and cylinder bundle systems. Our medical gases are filled in accordance with the standards by passing through special and constantly renewed filters.



High Purity Gases

Seralgaz fills high quality and high purity gases and process gases for metallurgy, electronics, environment, petrochemical, food, biotechnology and pharmaceutical industries and many similar industries. Our gases, which we call as high purity and mix gases, are supplied in steel or aluminum cylinder of different capacities and with brass or stainless valves.

Analyzes of special gases are performed with GC devices calibrated with internationally traceable gases.

High purity gases filled and sold are listed at below.

High Purity Argon	High Purity Oxygen	High Purity Carbondioxide
High Purity Nitrogen	High Purity Acethylene	High Purity Ammonia
High Purity Helium	High Purity Dry Air	SO2
High Purity Hydrogen	High Purity Methane	High Purity Propane



Food Gases

Food (MAP) gases are obtained for almost all foodstuffs and from mixtures of Nitrogen, Carbon Dioxide and Oxygen in varying proportions depending on the type of food. These mixtures not only protect the food from negative effects, but also make the external appearance of the food more vivid, increase the yield by extending the shelf life of the food.

Food gases vary according to the products requested, ambient temperatures and similar conditions. Our food gas mixing ratios and usage product table are as follows.

MAP GASES	PRESSURE	QUANTITY
Gıda Gazı A (%100 N2)	200 BAR	9,4 m3
Gıda Gazı 35 (%35 CO2 + Balans N2)	200 BAR	13,04 M3
Gıda Gazı 4 (%30 CO2 + Balans N2)	200 BAR	11,44 M3
Gıda Gazı 5 (%40 CO2 + Balans N2)	200 BAR	12,34 M3
Gıda Gazı 6 (%50 CO2 + Balans N2)	200 BAR	13,4 M3
Gıda Gazı 12 (%20 CO2 + Balans O2)	200 BAR	11,9 M3
Gıda Gazı 13 (%25 CO2 + Balans O2)	200 BAR	12,27 M3
Gıda Gazı 14 (%30 CO2 + Balans O2)	200 BAR	12,67 M3



Gıda Ürünü	CO2%	N2%	O2%
White Meat	25-30	70-75	
Cheese	25-30	70-75	
Cooked Meat	25-35	65-75	
Crawn, Mussel	30-40	30-40	30
Pizza	40-50	40-60	
Bread	50-60	40-50	
Bakery Products	50-60	50-60	
Coffee		100	
Nuts, Potato Chips		100	
Red Meat	20-35		65-80
Vegetables, Fruits	3-5	90-94	3-5



G Gases

G gases are referred to as heater test gases, stoves, burners, heaters and combi boilers tested using flammable gas are tested with these gases before they are shipped. We continue to supply G gases with our EMRA sales authorization certificate.

G20 (CH₄-Methane 99.5%)	200 bar	12 m³
G21 (13% C₃H₈ balance CH₄)	59 bar	3.2 m³
G23 (7.5% N₂ balance CH₄)	150 bar	8.9 m³
G25 (14% N₂ balance CH₄)	150 bar	8.8 m³
G25.1 (14% CO₂ balance CH₄)	150 bar	9.2 m³
G26 (7% C₃H₈ + 13% N₂ balance CH₄)	110 bar	6.2 m³
G26.1 (6% C₃H₈ + 14% CO₂ balance CH₄)	124 bar	7.3 m³
G27 (18% N₂ balance CH₄)	150 bar	8.7 m³
G27.1 (18% CO₂ balance CH₄)	150 bar	9.3 m³
G30 (50% I-C₄H₁₀+50% N-C₄H₁₀)	-	25 kg
G31 (C₃H₈-Propane 99.5%)	-	21 kg
G32 (C₃H₆-Propylene 99%)	-	21.5 kg
G110 (24% N₂ + 26% CH₄ balance H₂)	150 bar	7.4 m³
G112 (24% N₂ + 17% CH₄ balance H₂)	150 bar	7.2 m³
G222 (23% H₂ balance CH₄)	150 bar	8.5 m³

Ammonia Gas

Ammonia gas is a compound formed as a result of combining hydrogen and nitrogen gas in a pressurized environment. Ammonia has an important place in many production sectors. The sectors where it is used are nitration, brazing, annealing, cold storage, solar panel production, electric chip production. As Seralgaz, we have been selling ammonia with our cylinder and tanker fleet since 1998. Seralgaz aims to support valuable industrial companies of our country with innovative approaches, besides working with cylinders, it also supports companies with high consumption with special capacity ammonia tanks and portable ammonia tanks.

We supply high purity ammonia gases with the aim of contributing to companies that manufacture with sensitive production methods.

In addition to the ammonia gases we sell, we also sell ammonia cylinders and tanks.



Aqueous Ammonia

Aqueous ammonia, also known as ammonium hydroxide solution, is a chemical formed by the dissolution of pure ammonia in water at a maximum rate of 25%. In our facilities, aqueous ammonia is produced together with pure water formed as a result of water subjected to reverse osmosis processes and 0 waste. A few properties of aqueous ammonia are as follows.

- Its density is 0.0909 at 15 degrees. It has a concentration of 25.65%.
- It is expressed with the formula $\text{NH}_4 \text{OH}$.
- It has a clear appearance.
- It turns into liquid form under certain pressures at normal temperatures. The type of ammonia obtained from this process is called aqueous ammonia.
- It shows weak base feature.
- The aqueous solution of ammonia is called aqueous ammonia.
- The weight of the aqueous solution is 25% at 20 degrees.
- Density is 0.903 gr/cm³ at 20 degrees.

These products are shipped in drums, IBCs or tankers according to the demands of the companies. The usage areas of aqueous ammonia are as follows.

- Pharmaceutical and fertilizer production,
- In the synthesis of perfumes,
- In oil refineries, neutralizing acid-containing by-products,
- In the production of synthetic fiber,
- Cotton and yarn cleaning,
- It is used in the production of synthetic resin.



Ethylene Oxide

Ethylene oxide is a colorless, odorless, toxic gas, slightly heavier than air, flammable and explosive, soluble in water, alcohol and other organic solvents.

Since ethylene oxide is a very flammable chemical, it is usually filled with carbon dioxide in a cylinder and sold as an ethylene oxide-carbon dioxide mixture in industrial uses.

Ethylene oxide usage areas are as follows.

It is used for sterilization to stop microbiological activity and in the production of ethylene glycol.



R290

R290 coded propane gas used for cooling is used in refrigerators and cooling cabinets and should not be mixed with LPG or propane gas used in industry. Compared to propane, its moisture content is lower and its purity is higher.

There are two separate valves in our R290 cylinders to ensure both liquid and gas use. As Seralgaz, we deliver R290 gas to companies with high consumption in 45 KG cylinders.



Laser Gases

Carbon dioxide, nitrogen and helium gases are needed to create the laser beam in laser cutting machines, which are called carbon laser machines used today.

Laser gases can be used in two different ways in carbon laser machines.

By connecting High Purity Carbon Dioxide, High Purity Helium and High Purity Nitrogen gases separately in machine with 3 separate entrances, after filling the specified 3 gas mixtures into a cylinder, connecting from a single inlet which it is given to the machine.

Laser gas mixtures are as follows.

	CO2%	N2%	He%	GAS VOLUME IN 150 BAR
Lazer 12	5,4	27	Balans	7 M3
Lazer 1	3,4	15,6	Balans	7,04 M3
Lazer 2	4,5	13,5	Balans	7,07 M3
Lazer 3	9	13,5	Balans	7,3 M3
Lazer 4	5	Balans	40	7,32 M3
Lazer 5	1,7	23,4	Balans	6,99 M3
Lazer 6	4	26	Balans	7,11 M3
Lazer 7	5	35	Balans	7,21 M3
Lazer 8	12	12	Balans	7,46 M3
Lazer 9	3,4	31,4	Balans	7,11 M3



Steel Draw and Aluminum Cylinders

Seralgaz, one of the pioneers in its sector, is one of the leading companies in the sales of domestic and imported steel drawing and aluminum cylinders produced in accordance with European standards used for industrial and medical purposes in Turkey and abroad.

In our company, 34CrMo4 alloy 2 L, 5 L, 10 L, 40 L, 50 L cylinders and 6061 alloy 1L, 2 L, 5 L, 10 L and 50 L aluminum cylinders are sold

Our cylinders are in 25 E and 17 E inlet valve thread sizes and the valves are available in brass alloy and stainless steel options in accordance with DIN, BS, CGA and AFNOR standards.

Product Name	Work/ Test Pressure	Cylinder Volume	Height	Diameter	Weight
5 L Seamless Cylinder	150/225 BAR	5 L	470 mm	140 mm	8 KG
5 L Seamless Cylinder	200/225 BAR	5 L	470 mm	140 mm	8 KG
10 L Seamless cylinder	200/300 BAR	10 L	840 mm	140 mm	13.5 KG
20 L Seamless cylinder	200/300 BAR	20 L	920 mm	220 mm	30 KG
40 L Seamless cylinder	150/200 BAR	40 L	1200 mm	230 mm	50 KG
40 L Seamless cylinder	200/300 BAR	40 L	1200 mm	230 mm	50 KG
50 L Seamless cylinder	200/300 BAR	50 L	1500 mm	230 mm	56 KG
50 L Seamless cylinder	230/345 BAR	50 L	1500 mm	230 mm	56 KG
50 L Seamless cylinder	300/450 BAR	50 L	1500 mm	230 mm	60 KG



Cylinder Bundles

Production

In our Esenyurt production facility, we produce our products in accordance with the authorization certificates we have received from TUV Austria and Turkish Loyd, and all materials are recorded in accordance with the procedures.

In our welded productions made by our technical personnel, who have welding inspection quality certificates; liquid penetrant test , which is a type of non-destructive inspection, is applied and welding ultrasonic inspection processes are applied upon request.



LEAKAGE TEST

Each gas manifold set produced is first subjected to a hydrostatic test of 1.5 times the working pressure.

The gas manifold kits, which are mounted on the cylinder bundle system, are filled to the working pressure and subjected to a 24-hour leakage test. After checking the leakage with gas leakage spray, the products are ready for shipment.

INOX

INOX cylinder bundle system is in high demand thanks to its aesthetic structure and comfortable use. The production design has been designed according to ADR 2013.

It is produced within the scope of TSE EN ISO 10961, 2010/35/EU and ADR directives.

The most important feature of our INOX model is that the cylinders are connected separately to the main connection pipe, providing faster filling and gas flow.

In addition, in mixed gas fillings, it provides a homogeneous distribution instead of transferring from cylinder to cylinder as in other models.

There are 2 valves in total, one filling and one usage valve. There is a pressure manometer next to each valve.

The disassembly and assembly processes are easier when compared to other stainless gas manifold models on the market, and maintenance operations can be done more easily and quickly.

FEATURES

Gas Manifold

- Stainless steel gas manifold system
- Brass Valve Connection (Chrome Plated Optional)

Cage

Galvanized

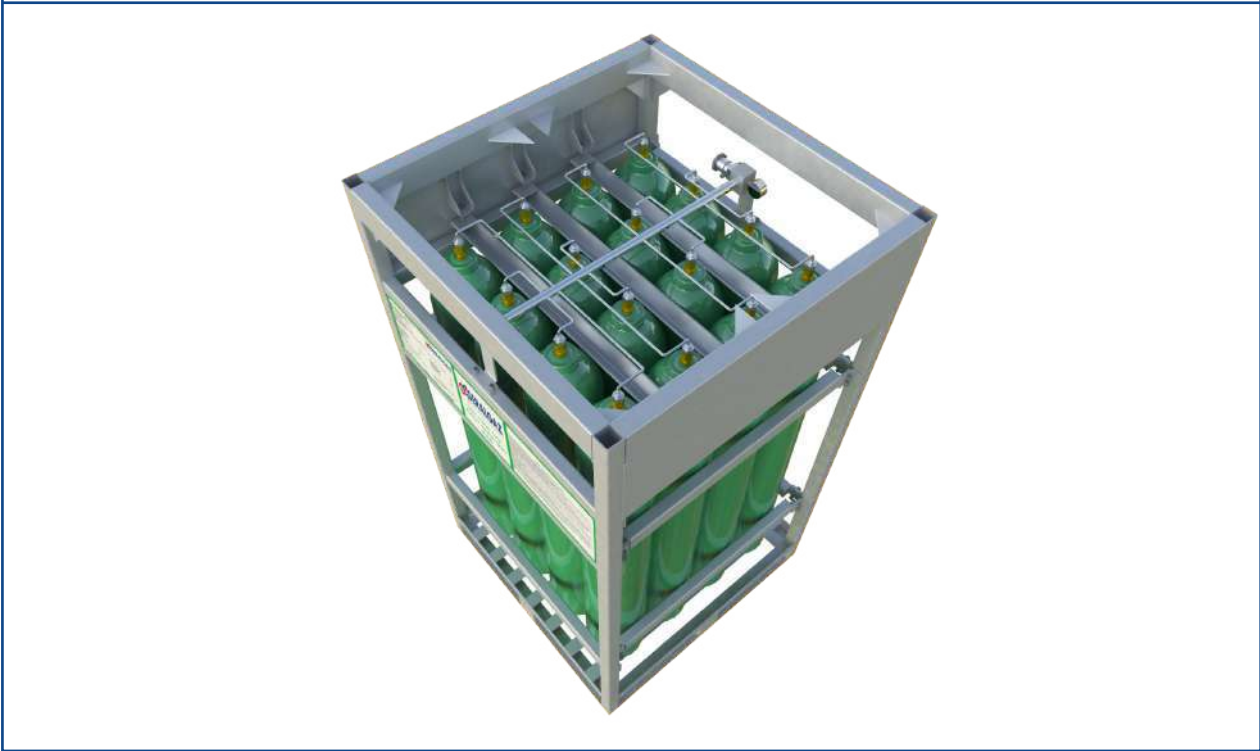
Outlet Valve

Cylinder bundles outlet valves are available with valve sizes conforming to DIN, BS, CGA and AFNOR standards.

Product Name	Work/ Test Pressure	Cylinder Volume	Height	Width	Depth	Weight
6x50 LT CLYINDER BUNDLE	230/345 BAR	450 Lt	2200 mm	560 mm	800 mm	930 kg
12x50 LT CLYINDER BUNDLE	230/345 BAR	600 Lt	2200 mm	800 mm	1050 mm	1050 kg
16x50 LT CLYINDER BUNDLE	230/345 BAR	800 Lt	2200 mm	1050 mm	1050 mm	1200 kg
6x50 LT CLYINDER BUNDLE	300/450 BAR	300 Lt	2200 mm	560 mm	800 mm	930 kg
12x50 LT CLYINDER BUNDLE	300/450 BAR	600 Lt	2200 mm	800 mm	1050 mm	1050 mm
16x50 LT CLYINDER BUNDLE	300/450 BAR	800 Lt	2200 mm	1050 mm	1050 mm	1200 kg

Our cylinder bundle products are used safely in the industrial and medical sectors.

- The cylinders used in the cylinder bundle are produced according to ISO 9809 standards and are produced by manufacturers with all documents approved.
- All ADR2 class products can be used except C2H2, toxic gases group.
- Special signage design is made with the customer company logo and name.



COPPER

Seralgaz, one of the pioneers in its sector; It has specially designed copper gas manifold systems that can be mounted on 6x50 Lt, 12x50 Lt and 16x50 Lt cylinders for companies with high consumption. Our products have been used by our customers for years without any problems.

We manufacture our cylinder bundle models according to EN ISO 10961, 2010/35/EU TPED and ADR. Our cylinder bundle products are used safely in the industrial and medical sectors.

FEATURES

Gas Manifold

- 8x2 mm or 10x2.5 mm copper pipe connection
- Brass Valve Connection (Chrome Plated Optional)

Cage

Galvanized mesh

Outlet Valve

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Gas Equipment

As Seralgaz, in addition to gas and cylinder sales, we sell industrial and medical gas equipment, we have central gas systems sales, installation and gas systems testing. We provide technical engineering support together with the gas equipment in our product range.

In our product range;

Flame Arresters, Alarm Systems, Gaskets, Check Valve Groups, Industrial Equipment, Economizers, Heating Groups, Hoses, Flex Hoses, Welding and Annealing equipment, Cryogenic Equipment, Laboratory Post Groups, Power Plant Regulators, Torques, General Purpose Regulators, Sigorta , Valve And Groups.

With our 25 years of experience and knowledgeable staff, we make central gas systems and installations for special projects.



Cylinder Testing

Our company was authorized by the Ministry of Science and Technology in 09.10.2012. Since this date, all the cylinders have been tested, maintained and painted by us, and the safety of life and property of our customers, which is our priority, has always been protected.

The cylinders, which come to our company for test purposes, are carefully tested, maintained and painted and delivered with their reports.

Testing and maintenance procedures vary according to the type of gas and place of use. If we want to use a general expression, these transactions are carried out in an average period of ten years.

Our company carries out the test and maintenance operations of the Pi-marked tubes, which started in 2005 as a result of the mutual negotiations with TÜV-SÜD on 02.06.2014 and the necessary examinations in our company's Esenyurt facilities, under the document and supervision given by TÜV-SÜD. And it organizes the test reports.



