



Alucyl

ALUMINIUM GAS CYLINDERS

Alumíniumárugyár Zrt.

Established
in 1899

ALUMINIUM GAS CYLINDERS

Our factory, the Alumíniumárugyár has 100 years of history; it was established in 1899. It was transformed into a Public Limited Company in 1993. Our company has been producing low pressure, welded aluminium gas cylinders suitable for storing and transporting propane and butane (LPG) gases and refrigerants for industrial and domestic usage since 1949. Gas cylinders of various sizes are manufactured from aluminium discs, with deep drawing.

Our **Alucyl** gas cylinders are made in five inner diameters: 180, 205, 250, 290 and 330 mm.

The gas cylinders have the following water capacities: 4.8, 4.86, 6.5, 14.3, 20, 26.2, 34, 50 litres.

Test pressure is between 30 and 33 bar for propane and butane (LPG) gas, and 48 to 50 bar for filling industrial refrigerants.

Our gas cylinders are manufactured according to the standards EN 12862 and 13110, and they meet the specifications of the standards set out in the 2010/35/EU TPED and ADR/RID Directives. The quality of the gas cylinders manufactured by us is certified by TÜV SÜD Industrie Service GmbH by marking them with the sign "π".

Our company meets the requirements of the TÜV Quality Management System according to the standard ISO 9001:2008

We also satisfy special requests. After a type approval process we produce gas cylinders with various diameters or water capacity, even with multiple valves.

ADVANTAGES OF OUR ALUMINIUM GAS CYLINDERS OVER STEEL CYLINDERS

Alucyl gas cylinders made of special Al-Mg-Si alloy have many advantages over steel and any other aluminium cylinders:

- **Alucyl** are resistant to cold until -50°C. Steel cylinders cannot sustain temperatures below -20°C. Usage of the filled gas from our gas cylinder in extreme cold weather without loss is guaranteed.
- **Alucyl** are resistant to hot air until +160°C. Safe usage is guaranteed.
- **Alucyl** resist corrosion and are aesthetic without painting. No inner corrosion hampers the storage of the gas. No repainting or other corrosion protection is necessary, therefore while running expenses remain low, the difference in purchase price returns in a short period of time.
- No danger of sparks during mechanical impacts.
- Due to the clearness and resistance of the special raw-material Al-Mg-Si alloy, they can be used for refrigerant types of gas. No chemical reaction occurs. That is why you or your customer will not have any damage caused by congestion during repairing or maintenance of the air-conditioners/ industrial refrigerants.
- Environmental friendly during utilisation, recyclable after disposal.



- **Light weight** - the empty mass of aluminium cylinders are significantly lighter than steel cylinders of the same volume. Thus their transportation and removal is easier as well as they are more aesthetic.
- **High level of safety** - the welding joint is at the safest part, on the neck of the **Alucyl** cylinders.
- **Durability** – Lots of our gas cylinders more than 60 years old are still in use on the market. Their high quality is retained and their life span is significantly longer compared with the life span of steel cylinders which is approximately 15-20 years.
- **Guarantee** - 50 years in case of proper use. (The product shall not be impacted by mechanical damages and any chemicals, except for gases permitted for filling. The 50 years guarantee does not involve the valve and design painting).

Unique advantages; a comparison of aluminium and steel cylinders, taking special local climatic characteristics into consideration:



Aluminium cylinders are much more resistant to salty sea air than steel cylinders, thus the life span of cylinders used on ships, at or near seaside is considerably longer. No repainting or other corrosion protection is needed; therefore, your maintenance costs are much lower than that of steel cylinders. Due to the low weight their transportation and handling is significantly easier.

Alucyl has a technically exceptional and unique construction. Thanks to our innovative technology, welding joint is found at the neck of the cylinder, where the stress under pressure is only 1/9 compared with traditional cylinders welded at the centre by a different producer. Thus our products are much safer and have a longer lifetime.

REFERENCES

In the past decades Alumíniumárugyár ZRt. has produced over 9 million aluminium cylinders, of which cca. 3 million pieces have been sold abroad.

Our clients all over the world have our products assessed and approved by their own national authority; our products always meet the requirements.

Our gas cylinders are used in almost all European countries, as well as on other continents.

We would be pleased to serve our potential customers with individual or standard needs with our high level of expertise and competitive prices.

If you require further information on a price quote, please contact us at sales@alurt.hu.

UTILIZATIONS AREAS

- FOR ENERGY-SUPPLY PURPOSES

Household cooking and heating equipment, caravanning, camping, sailing, yachting.
Test pressure is between 30 - 33 bar for propane and butane (LPG).
(4.8L, 6.5L, 14.3L, 26.2L, 34L, 50L)

- AS FUEL-TANKS FOR INDUSTRIAL FORKLIFTS

Test pressure is between 30 - 33 bar for propane and butane (LPG).
(26.2L, 34L)

- FOR FILLING INDUSTRIAL REFRIGERANTS

Test pressure is between 48 - 50 bar for refrigerants.
(4.86L, 14.3L, 20L)

Refrigerant gases which can be filled into the cylinders:

R22, RS24, R124, R125, R134a, R142b, R143a, R227, R240FF, R404A, R407A, R407B, R407C, R410A, R410B, R413A, R417A, R419A, R422A, R422D, R437A, R507, R507A, ammonia. Types of the gases are only informing data.



Volume	Type	Test pressure	Tara mass	Filling mass	Outer Diameter	Height	Gas
4.8 L	518.233	33 bar	1,8 kg	2 kg	186 mm	258 mm	propane and butane
4.86 L	518.230	50 bar	2 kg	varying	186 mm	340 mm	refrigerants
6.5 L	521.101	33 bar	2,5 kg	2,7 kg	212 mm	258 mm	propane and butane
14.3 L	525.246	33 bar	5,4 kg	6 kg	256 mm	495 mm	propane and butane
14.3 L	525.241	50 bar	5,8 kg	varying	258 mm	495 mm	refrigerants
20 L	529.242	48 bar	6,9 kg	varying	298 mm	516 mm	refrigerants
26.2 L	529.244	33 bar	7,2 kg	11 kg	298 mm	610 mm	propane and butane
34 L	529.254	30 bar	8,5 kg	14,3 kg	298 mm	725 mm	propane and butane
50 L	533.140	30 bar	11 kg	21 kg	338 mm	820 mm	propane and butane

Wall thickness is between 3-4 mm depends on type. Propane butane nominal filling ratio is 0.42 L/kg
Beside ethylene oxide can be filled into the cylinders as well.

RANGE OF PRODUCTS



Volume 4.8 L Filling mass 2 kg
Type 518.233
Gas propane and butane



Volume 6.5 L Filling mass 2,7 kg
Type 521.101
Gas propane and butane



Volume 14.3 L Filling mass 6 kg
Type 525.246
Gas propane and butane



Volume 26,2 L Filling mass 11 kg
Type 529.244
Gas propane and butane



Volume 34 L Filling mass 14,3 kg
Type 529.254
Gas propane and butane



Volume 50 L Filling mass 21 kg
Type 533.140
Gas propane and butane



Volume 4.86 L
Type 518.230
Gas refrigerants



Volume 14.3 L
Type 525.241
Gas refrigerants



Volume 20 L
Type 529.242
Gas refrigerants

METHODS OF TRANSPORTATION



Palletized



Placed by the line, protected by corrugated paper

COUNTRIES WHERE OUR PRODUCT ARE DISTRIBUTED

Austria	Netherlands
Belgium	New Zealand
Czech Republic	Norway
Denmark	Portugal
Estonia	Russia
Finland	Slovakia
France	Slovenia
Germany	Spain
Hungary	Sweden
Italy	Switzerland
Latvia	United Kingdom
Lithuania	



CERTIFICATE



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