



Alucyl

ALUMINIUM GAS CYLINDERS

Alumíniumárugyár Zrt.

Established
in 1899

ALUMINIUM GAS CYLINDERS

Our factory, the Alumíniumárugyár has more than 120 years of history; it was established in 1899. It was transformed into a Public Limited Company in 1993. We were the firsts in Europe to manufacture 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.

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 Thüringen e.V. by marking them with the sign „ π ”.

Our company meets the requirements of the TÜV Quality Management System according to the standard ISO 9001:2015 and the TÜV Environmental management system according to the ISO 14001:2015. 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 info@alurt.hu.

UTILIZATIONS AREAS

- FOR ENERGY-SUPPLY PURPOSES

Household cooking and heating equipment, caravanning, camping, sailing, yachting, ballooning.
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 propáné 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, R41 9A, 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	1,9 kg	2 kg	1 86 mm	258 mm	propane and butane
4.86 L	518.230	50 bar	2,1 kg	varying	1 86 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	5,4 kg	varying	258 mm	495 mm	refrigerants
20 L	529.242	48 bar	7 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.



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 51 8.230
Gas refrigerants



Volume 14.3 L
Type 525.241
Gas refrigerants



Volume 20 L
Type 529.242
Gas refrigerants



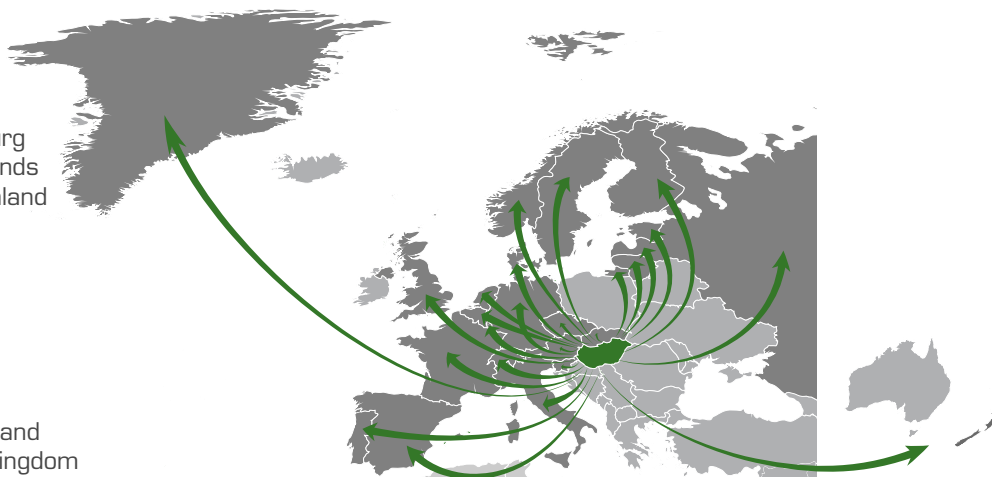
Palletized



Placed by the line, protected by corrugated paper

COUNTRIES WHERE OUR PRODUCT ARE DISTRIBUTED

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



CERTIFICATE

CERTIFICATE

for the management system
according to ISO 9001:2015
The proof of the conforming application with the regulation was
furnished and in accordance with certification procedure it is certified
for the company



Alumíniumárugyár Zrt.
H-1142 Budapest
Erzsébet királyné útja 57-61.

Scope

Design, production and sales of aluminium gas cylinders,
production and sales of railway and public vehicle parts

Certificate Registration No.: TUC 15 100 2215471 Valid until: 2025-10-03
Audit Report No.: 3330 352GA AG Valid from: 2022-10-04

This certification was conducted in accordance with the TUC auditing and certification procedures and
is subject to regular surveillance audits.



Jana, 2022-10-04

CERTIFICATE

ÉMI-TÜV SÜD Kft.
HU - 2000 Szentendre, Dózsa György út 28.
herby certifies that



Alumíniumárugyár Zrt.
HU - 1142 Budapest
Erzsébet királyné útja 57-61.

has established and applies
an Environmental Management System for

Design, production and sales of aluminium gas cylinders,
production and sales of railway vehicle parts.

An audit was performed, Report No. 732004675
Proof has been furnished that the requirements
according to

MSZ EN ISO 14001:2015

are fulfilled. The certificate is valid from 2020-10-30 until 2023-10-29.
Certificate Registration No.: MS 1424K-054



ÉMI-TÜV SÜD Kft.
Szentendre, 2020-09-10



TÜV

CERTIFICATE

for fulfillment of quality requirements for welding

ÉMI-TÜV SÜD Kft.
H-2000 Szentendre, Dózsa György út 28.
certifies, that

Alumíniumárugyár Zrt.
H-1143 Budapest
Erzsébet királyné útja 57-61.

fulfills the Comprehensive Quality Requirements according to
MSZ EN ISO 3834-2:2006
in defined scope in the report No. 20C103020076

The certificate is valid from 2020-06-01 until 2023-06-31

Registration No.: TA 9926 - 002 - A

Szentendre, 2020-07-15

Wiegand
Krisztina Vilgós
ÉMI-TÜV SÜD Kft.



1434 Útja 14. al. certification number: 19-004201-1332

TÜV

