



**Westfalen**

# The light variety.

Alumini® cylinders from Westfalen.



# Alumini® – Our small cylinders for your flexibility.

## Solutions for all applications

Even at Westfalen we are amazed at how diverse the range of application for our (specialty) gases are. For customers who need only small quantities of gas, not continuously or for mobile applications, we have developed the small Alumini® cylinders. These cylinders offer an economical and practical alternative to our traditional – but rather large and heavy – high-pressure cylinders. In the meantime, we offer you a range of solutions and cylinder sizes, the newest members of the family being the Alumini® 12 fly and the Alumini® 70.

As a small, lightweight and mobile disposable cylinder that is specially approved for air transport, the Alumini® 12 fly can land wherever it is needed. Fast, secure and worldwide. The Alumini® series is completed by the practical Alumini® 70.

In this way you will find the right gas in the right cylinder size for all your special applications. And with maximum convenience for your processes and permanent availability.

## Three-way flexibility

With the three dimensions of flexibility in the Alumini® programme, every aspect of your needs is covered.

1. You benefit from a flexible range of cylinder sizes: from the ultra-lightweight Alumini® 1 gas bag with 5, 15 or 28 l capacity to the Alumini® 12 fly pressure can for small measuring instruments and the Alumini® 200 in small dimensions for high working pressure up to 200 bar to the Alumini® 70 with universal connection.
2. You enjoy the full range of gas extraction systems: We offer you all the fittings and connections you need for every cylinder shape and size – directly from one source, if required.
3. You take advantage of our wide range of products: Choose from more than 30 high-purity gases, gas mixtures and isotope or isotope mixtures. And of course we will also find the right supply solution for your individual gas mixture.

## Westfalen are picky.

Especially when it comes to the purity and reliability of our specialty gases. But also to make your daily business even more flexible and economical. For example, with our complete range of Alumini®:

Alumini® 1, Alumini® 12 fly, Alumini® 70, Alumini® 200 and the Alumini® Smart Box.



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The registered brand name Alumini® is derived from the material aluminium used for these lightweight cylinders and the abbreviation "mini". After all, the main advantage is its small size - and it's not cute, it's economical for you.

# Our lightest solution for your supply.



Alumi® 1 gas bags in the sizes 28 l, 15 l and 5 l.



Direct connection with integrated valve: Fix the hose with an inner diameter of 6 mm, activate controlled gasflow by turning the valve.



Special equipment as standard - the 28 l bag is also available with two valves. This enables flushing by simply flowing through the unit.

# Alumini® 1

The Alumini® 1 gas bags are ideal for air sampling, quick and easy gas transport from the cylinder to the point of use or for the intermediate storage of small quantities of gas. With the three delivery sizes of 5, 15 and 28 l, you benefit from the ultra-light alternative to gas cylinders, especially in the field of laboratory and environmental technology. The reusable gas bags are each equipped with valve and septum.

## Main applications

- Sampling by vacuum pump
- Storage and in-house transport of gases under low pressure

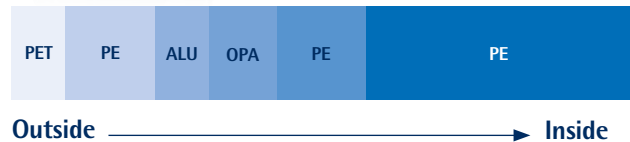
## Main advantages

- Minimal weight and yet robust thanks to aluminium-laminated multi-layer composite film
- Easy handling for more flexibility in daily business
- Economical due to low acquisition costs and reusability

Technical data	
Alumini® 1	
Filling pressure	< 1 bar
Capacity	5 l, 15 l, 28 l
Weight	approx. 100 g
Geometric volume	5 l, 15 l, 28 l
<b>Gas bag dimensions</b>	5 l: 240 mm x 475 mm 15 l: 360 mm x 670 mm 28 l: 385 mm x 766 mm
Reusable cylinder	x
Mobile use	x
Connection	Valve + septum
Material	Aluminium-laminated multi-layer film
Accessories	x



PET = Polyethylene terephthalate  
PE = Polyethylene  
ALU = Aluminium  
OPA = oriented polyamide



## Layer on layer for highest quality

The diagram above shows the material structure of the Alumini® 1 gas bags from the outside to the inside, which ensures a lightweight, extremely robust and chemically inert container.

# Our pressure can for your mobile measuring application.



## Alumini® 12 fly

Measuring devices are becoming smaller and more mobile. The Alumini® 12 fly is our practical and safe answer to this development. The lightweight aluminium pressure can is the ideal solution for your mobile applications with an operating pressure of up to 12 bar. With the capacity of up to 12 gas litres, you can use smaller quantities of high-purity and test gases in a handy and safe way - wherever you need them.

### Main applications

- Mobile measurement applications
- Calibration of measuring instruments
- Metrology and laboratories

### Main advantages

- Low weight for easy, mobile handling
- Variably interchangeable withdrawal fittings
- Postal delivery within Germany - except for filling with toxic gases
- Suitable for air freight

**Alumini® 12 fly - Specially approved for air transport.**

The Alumini® 12 fly pressure cans are specially approved for air transport, they can land wherever they are needed. Fast, secure and worldwide.

### Technical data

#### Alumini® 12 fly

Filling pressure	12 bar
Capacity	approx. 12 l
Weight	approx. 200 g
Geometric volume	approx. 1 l
Height	approx. 294 mm
Diameter	approx. 76 mm
Mobile use	x
Connection	7/16"
Material	Aluminium alloy
Accessories	Pressure regulator optionally available

## Gas sampling systems for Alumini® 12 fly



The spray nozzle can be used, for example, to blow at open measuring systems.



The fine control valve enables the metered extraction of even the smallest amounts of gas.



The fine control valve with pressure gauge enables the metered extraction of even the smallest gas quantities.



The syringe adapter allows the withdrawal of smallest gas quantities by means of pressure-resistant syringes or cannulas.



The desired gas volume flow can be set with the gas flow regulator.



With the pressure reducing valve you can adjust either the flow or the back pressure.

### Product range

Article no.	Designation
8008050	Spray nozzle
8008051	Fine control valve, evacuable
8008052	Fine control valve, evacuable, with pressure gauge
8008053	Syringe adapter
8008054	Gas flow regulator (d) 0,5 bis 1,5 l/min
8008057	Pressure reducing valve with rear pressure gauge and hose nozzle
8008058	Pressure reducing valve with back pressure gauge and 1/4" pipe connection Optional: adjustable flow rate



Alumini® 12 with 7/16" valve connection.

# Our reusable cylinder conserves resources for your convenience.



## Alumini® 70

When developing the Alumini® 70, it was important to us that you should be able to use it for the widest range of specialty gases applications. This cylinder combines the advantages of the previous product series Alumini® 1, Alumini® 12 fly and Alumini® 200. The small, 1.2 kg reusable cylinder with a capacity of 112 litres of gas can be used with absolute flexibility - also thanks to the internationally common universal connection 5/8"-18 UNF. This means that there are no limits to its use as a carrier gas in micro-gas chromatographs or as a calibration gas, especially when mobile use is required. The pressure cylinder can be refilled many times - this contributes to waste avoidance and resource conservation.

### Main applications

- Wide range of test gas applications
- Usable in Europe and worldwide

### Main advantages

- Maximum compatibility
- Large capacity with small dimensions
- Universal connection enables worldwide use
- Economy and comfort in one solution
- Resource-conserving through refill ability



Alumini® 70 with 5/8"-18 UNF valve connection.

### Technical data

#### Alumini® 70

Filling pressure	70 bar
Capacity	approx. 112 l
Weight	approx. 1,200 g
Geometric volume	1.6 l
Height	approx. 380 mm
Diameter	approx. 90 mm
Reusable cylinder	x
Mobile use	x
Connection	5/8"-18 UNF
Material	Aluminium alloy
Accessories	Pressure regulator optionally available



## Gas sampling systems for Alumini® 70



Pressure regulator for 5/8" valve. For dispensing a preset flow between 0.5 l/min and 5 l/min. Ideal for non-corrosive gases. Alternatively, the controller is also available as a stainless steel version. Model Multiflow.



Pressure regulator including pressure indicator for 5/8" valve. With open/close wheel and fixed flow setting. For non-corrosive gases. Alternatively, a stainless steel version is also available. Model Fixflow.



Pressure regulator with manometer for filling and outlet pressure for 5/8" valve. Adjustable between 0.5 bar and 4 bar. Available in brass and stainless steel.

### Cylinder regulator for Alumini® 70 gas cylinders

These cylinder regulators are specially designed for our gas cylinders of the Alumini® 70 series. So you will find the right gas in the right cylinder for all your special applications.

Cylinder regulator			
Article no.	Gas type	Designation and measuring range	Material
8008087004	Non corrosive gases	FM45, pressure range 0-4 bar, outlet 6 mm clamping ring	Brass
8008087104	Corrosive gases	FE45, pressure range 0-4 bar, outlet 6 mm clamping ring	Stainless Steel
800807001	Non corrosive gases	Fixflow regulator, 1 l/min, pressure range 4 bar, outlet 3/16" nozzle	Brass
800807101	Corrosive gases	Fixflow regulator, 1 l/min, pressure range 4 bar, outlet 3/16" nozzle	Stainless Steel
800807004	Non corrosive gases	Fixflow regulator, 4 l/min, pressure range 4 bar, outlet 3/16" nozzle	Brass
800807104	Corrosive gases	Fixflow regulator, 4 l/min, pressure range 4 bar, outlet 3/16" nozzle	Stainless Steel
80080701	Non corrosive gases	Multiflow regulator, 0.5-5 l/min, pressure range 4 bar, outlet 3/16" nozzle	Brass
80080702	Corrosive gases	Multiflow regulator, 0.5-5 l/min, pressure range 4 bar, outlet 3/16" nozzle	Stainless Steel
80080703	Corrosive gases	Fixflow regulator, 0.5 l/min, pressure range 4 bar, outlet 3/16" nozzle	Stainless Steel
80080704	Non corrosive gases	Fixflow regulator, 0.5 l/min, pressure range 4 bar, outlet 3/16" nozzle	Brass

Other regulators on request.

# The smallest solution for your high-pressure applications.



## Alumini® 200

The biggest advantage of this very small Alumini® cylinder is its high pressure resistance. With a filling pressure of 200 bar, you can use it for all applications with an operating pressure of over 12 bar.

Even at remote locations, you have the flexibility of up to 100 gas litres at your disposal. As a reusable cylinder, the Alumini® 200 is also robust, durable and suitable for stationary or mobile use. Thanks to the compatibility with common fittings and DIN connections, you enjoy the greatest freedom of application.

### Main applications

- Rare isotope applications
- Mobile testing of stationary systems

### Main advantages

- Highest pressure resistance with smallest dimensions
- Simple, needs-based transport, even to remote locations
- Refillable many times



Alumini® 200 with gas type specific gas sampling connection according to DIN 477-1.

### Technical data

#### Alumini® 200

Filling pressure	To max. 200 bar
Capacity	To max. 100 l
Weight	approx. 1,100 g
Geometric volume	0.5 l
Height	approx. 320 mm
Diameter	approx. 70 mm
Reusable cylinder	x
Mobile use	x
Connection	According to DIN 477-1 (gas type specific)
Material	Aluminium alloy
Accessories	Pressure regulator optionally available

## Gas sampling systems for Alumini® 200



Pressure reducer for inert gases (illustration similar).

The Alumini® 200 is compatible with common fittings and DIN connections. You can obtain these extraction systems from us at any time.

Cylinder regulator			
Article no.	Gas type	Designation and measuring range	Material
800808100501	Carbon monoxide	Single-stage, connection input DIN 477-1 No. 5, back pressure 0.5 - 10 bar, 6 mm clamping ring	Stainless Steel
800808101401	Corrosive gases and gas mixtures	Single-stage, connection input DIN 477-1 No. 14, back pressure 0.1 - 1.5 bar, with flow orifice plate	Stainless Steel
800808101402	Flammable gases	Single-stage, connection input DIN 477-1 No. 1, back pressure 0.1 - 1.5 bar, with orifice 0.45 mm	Stainless Steel
800808101403	Corrosive gases and gas mixtures	Single-stage, connection input DIN 477-1 No. 14, outlet pressure 0.2 - 1.5 bar, with gas restrictor	Stainless Steel
800808101404	Corrosive gases and gas mixtures	Single-stage, connection input DIN 477-1 No. 14, back pressure 0.4 - 4 bar, 6 mm clamping ring	Stainless Steel
800808000604	Noble gases, CO <sub>2</sub>	Single-stage, connection input DIN 477-1 No. 6, back pressure 0.4 - 4 bar, 6 mm clamping ring	Brass
800808001004	Nitrogen	Single-stage, connection input DIN 477-1 No. 10, back pressure 0.3 - 4 bar, 6 mm clamping ring with nozzle	Brass
800808001401	Corrosive gases and gas mixtures	Single-stage, connection input DIN 477-1 No. 14, back pressure 0.1 - 1.5 bar, 6 mm clamping ring	Brass
800808001404	Corrosive gases and gas mixtures	Single-stage, connection input DIN 477-1 No. 14, back pressure 0.4 - 4 bar, 6 mm clamping ring	Brass

Other regulators on request.

# Customized according to your requirements.

## Alumini® Smart Box – for your mobile flexibility

With the practical Alumini® Smart Box, you are now even more flexible during mobile operations on site. The gas set is individually compiled exactly according to your area of application. It is suitable for physicians as a blood gas analysis set as well as for experts as a flexible exhaust gas testing set and across many other gas applications. In your Alumini® Smart Box you have everything at hand for exact results: Alumini® cylinders in the size you need with matching withdrawal fittings in a sturdy case for when you are on the go.

## A case according to your requirements:

- The contents of the case can be put together according to your wishes
- Depending on the application, we put together your gas mixture with the appropriate extraction fittings
- Consultation included
- The gas mixtures and tapping fittings can also be reordered individually

## Alumini® 12 fly Smart Box

### Features of the Smart Box:

For mobile applications up to 12 bar operating pressure:  
2x Alumini® 12 fly with standardised connection 7/16".

### User: e. g. Sports medicine specialist

With this calibration set you can accurately measure athletic and health performance – simply by analysing the air you breathe. We supply the appropriate test gases for the spiroergometric examinations. The Alumini® 12 fly cylinders are specially approved for air transport.

## Alumini® 70 Smart Box

### Features of the Smart Box:

For mobile applications up to 70 bar operating pressure:  
2x Alumini® 70 with standardised connection 5/8"-18 UNF.

### User: e. g. Fire brigade

With this Alumini® Smart Box you control your mobile measuring devices in the central workshop. Thanks to the 5/8"-18 UNF connection, no further fitting is required in most cases. We are happy to offer you any additional fittings you may require. The test gas cylinders can be screwed directly onto the calibration unit.



Alumini® Smart Box with fitted foam insert for your Alumini® cylinders			
Cylinder type	Alumini® 12 fly	Alumini® 70	Alumini® 200
Filling pressure (max.)	12 bar	70 bar	200 bar
Capacity (max.)	12 l	112 l	100 l
Weight (approx.)	200 g	1,200 g	1,100 g
Geometric volume	1 l	1,6 l	0.5 l
Connection	7/16"	5/8"-18	According to DIN 477-1 (gas type specific)
Smart Box article no.			
	80080901200	80080907000	80080920000



## Alumini® 200 Smart Box

### Equipment of the Smart Box:

For mobile applications up to 200 bar operating pressure:  
2x Alumini® 200 with gas type-specific extraction fitting.

### User: e. g. Hospitals

With this calibration set you can check and adjust the dosage of Respadur® A for the NO applicators. The test gas is fed into the NO-A unit by means of a T-piece. Calibration of these devices must be repeated every 3 months and takes approx. 10 minutes. The gas requirement per calibration is approx. 3-5 l.



- 1 In the event of a leak, a pressure equalisation valve ensures that no pressure can build up in the case.
- 2 Your company imprint (small or full) can be attached to the outside of the case.
- 3 On the back, there is space for the UN number and hazard identification.
- 4 Eyelets on the left and right offer the possibility to lock the case with a separate lock.
- 5 In accordance with legal regulations, the relevant transport documents must always be carried with the cylinders. The foam cover in the lid has not been glued and offers a possibility to store papers.
- 6 Slots for shoulder strap or backpack system.

- Inner dimension: approx. 430 x 300 x 125 mm (L x W x H)
- Temperature stable from -40 °C to +80 °C
- Stackable
- Valve protection is provided
- Sufficient ventilation must be ensured
- The case is dust-, air- and waterproof

# Alumini® – Our product range.

## Alumini® 1

Product range Alumini® 1 gas bags			
Article no.	Designation	Max. Capacity <sup>1</sup>	Version
51003005	Alumini® 1 gas bag	5 l	Empty, with valve and septum
51003015	Alumini® 1 gas bag	15 l	Empty, with valve and septum
51003028	Alumini® 1 gas bag	28 l	Empty, with valve and septum
51003029	Alumini® 1 gas bag	28 l	Empty, with valve, without septum
51003327	Alumini® 1 gas bag	28 l	Empty, with two valves and septum
51003305	Set of 3 Alumini® 1	5 l	Empty, with valve and septum
51003315	Set of 3 Alumini® 1	15 l	Empty, with valve and septum
51003327	Set of 3 Alumini® 1	28 l	Empty, with valve and septum
51003328	Set of 3 Alumini® 1	28 l	Empty, with two valves and septum

Also available in packaging units of 5, 10, 25, 50 or 100 pieces on request

<sup>1</sup> At ambient pressure.

## Alumini® 12 fly

Product range high purity gases and gas mixtures in Alumini® 12 fly pressure cans (disposable)			
Article no.	High purity gases/gas type	Chem. symbol	Purity
A04020701AF	Argon	Ar	5.0
A04020701BF	n-Butane (content 4 g)	n-C <sub>4</sub> H <sub>10</sub>	2.5
A04020701CF	1-Butene (content 5 g)	1-C <sub>4</sub> H <sub>8</sub>	2.0
A04020701EF	Dinitrogen monoxide (content 22 g)	N <sub>2</sub> O	4.5
A04020701FF	Ethane (content 15 g)	C <sub>2</sub> H <sub>6</sub>	2.0
A04020701GF	Ethene (content 14 g)	C <sub>2</sub> H <sub>4</sub>	2.5
A04020701HF	Helium	He	5.0
A04020701JFF	Isobutane (content 6 g)	i-C <sub>4</sub> H <sub>10</sub>	2.5
A04020701KF	Isobutene (content 5 g)	i-C <sub>4</sub> H <sub>8</sub>	2.0
A04020701LF	Carbon dioxide (content 22 g)	CO <sub>2</sub>	4.5
A04020701XF	Krypton	Kr	4.0
A04020701NF	Methane	CH <sub>4</sub>	4.5
A04020701WF	Neon	Ne	4.0
A04020701OF	Propane (content 14 g)	C <sub>3</sub> H <sub>8</sub>	2.5
A04020701PF	Propene (content 16 g)	C <sub>3</sub> H <sub>6</sub>	2.5
A04020701QF	Oxygen	O <sub>2</sub>	5.0
A04020701RF	Sulphur hexafluoride	SF <sub>6</sub>	3.0
A04020701SF	Nitrogen	N <sub>2</sub>	5.0
A04020701TF	Synthetic air	-	-
A04020701UF	1,1,1,2-Tetrafluoroethane	CF <sub>3</sub> CH <sub>2</sub> F	-
A04020701VF	Hydrogen	H <sub>2</sub>	5.0
A04020701YF	Xenon	Xe	4.0
On request	Gaseous stable isotopes and isotope mixtures		
Article no.	Gas mixtures/ composition admixture	LEL <sup>1</sup>	
A04030701EF	2,5 Vol.-% CH <sub>4</sub> in Synth. Air	4,4 %	

<sup>1</sup> Lower explosion limit in air (at 20 °C, 1 bar). Other high purity gases and gas mixtures on request.

## Alumini® 70

Product range high purity gases and gas mixtures in Alumini® 70 reusable cylinders			
Article no.	High purity gases/gas type	Chem. symbol	Purity
A03980702-001	Nitrogen	N <sub>2</sub>	5.0
A03980702-002	Argon	Ar	5.0
A03980702-003	Helium	He	5.0
A03980702-004	Hydrogen	H <sub>2</sub>	5.0
A03980702-006	Synthetic air	-	5.0
A03980702-007	Methane	CH <sub>4</sub>	4.5
A04140702-001	Carbon monoxide	CO	3.7
Article no.	Gas mixtures		Stability (min.)
A03990702055	Alumini® 70 Mix 3 % CO <sub>2</sub> 3.0 in N <sub>2</sub> 5.0		36 Months

Other high purity gases and gas mixtures on request.

## Alumini® 200

Product range high purity gases and gas mixtures in Alumini® 200 reusable cylinders				
Article no.	High purity gases/gas type	Chem. symbol	Purity	Contents
A04040701A	Argon	Ar	5.0	100 l
A04040701L	n-Butane	n-C <sub>4</sub> H <sub>10</sub>	2.5	185 l
A04040701B	Ethane	C <sub>2</sub> H <sub>6</sub>	2.5	120 l
A04040701C	Ethene	C <sub>2</sub> H <sub>4</sub>	2.5	120 l
A04040701D	Helium	He	5.0	75 l
A04040701E	Isobutane	i-C <sub>4</sub> H <sub>10</sub>	2.5	185 g
A04040701F	Isobutene	i-C <sub>4</sub> H <sub>8</sub>	2.5	185 g
A04040701G	Carbon dioxide	CO <sub>2</sub>	4.5	335 g
A04040701H	Carbon monoxide	CO	3.7	50 l
A04040701J	Krypton	Kr	4.0	approx. 133 g/38 l <sup>1</sup>
A04040701K	Methane	CH <sub>4</sub>	4.5	75 l
A04040701M	Neon	Ne	4.0	75 l
A04040701N	Propane	C <sub>3</sub> H <sub>8</sub>	2.5	185 g
A04040701O	Propene	C <sub>3</sub> H <sub>6</sub>	2.5	185 g
A04040701P	Oxygen	O <sub>2</sub>	5.0	100 l
A04040701Q	Sulphur hexafluoride	SF <sub>6</sub>	3.0	500 g
A04040701W	Hydrogen sulphide	H <sub>2</sub> S	1.8	335 g
A04040701R	Nitrogen	N <sub>2</sub>	5.0	95 l
A04040701S	Tetrafluoromethane	CF <sub>4</sub>	2.8	240 g
A04040701T	Hydrogen	H <sub>2</sub>	5.0	75 l
A04040701U	Xenon	Xe	4.0	approx. 128 g/23 l <sup>1</sup>
On request	Gaseous stable isotopes and isotope mixtures			
Article no.	Gas mixtures			
A04050701P	80 Vol.-ppm C <sub>3</sub> H <sub>8</sub> in Synth. Air			

<sup>1</sup> Lower filling contents possible. Other high purity gases and gas mixtures on request.

## What you can rely on

Today, partnership and service are the mission of everyone. Westfalen lives up to this claim. Through our huge range of products from pure gases to customised gas mixtures. And through flexibility in production and in our delivery methods. And through every employee who is available to you with specialised knowledge. Put our service promise and know-how to the test.

We produce specialty gases together with you and according to your specifications. We will be happy to advise you in detail - also on the versatile application possibilities of the Alumini® family. Feel free to contact us!



Further information at  
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