

Focused on improving
metal fabrication...
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Maxx[®] shielding gases = lower welding costs



In today's competitive business environment, it is crucial that quality and productivity are combined to give your business the edge. Air Products' gases and gas supply solutions are proven to provide the highest weld and cut quality, to minimize rejects and to increase productivity. Our cylinders, gases and gas supply installations offer the highest safety standards, and with your health in mind, are carefully assessed to ensure minimum impact on the work environment.

As your business evolves, we have the expertise and technology to ensure you have the most cost effective method of gas supply. Solutions include the full-range of gases, gas mixtures and supply solutions from compressed cylinder gases to large volume gas supply in tanks.



Fabrication technologies

- **Welding** – high performance, easy-to-use shielding gases which deliver quality welds and improved productivity.
- **Cutting** – excellent fuel and assist gas technology to provide precise cuts and high cutting speeds for all processes from oxy-fuel to the latest high-power lasers.
- **Thermal spraying** – high-quality fuel and process gases and unique liquid nitrogen (LIN) cooling technology
- **Brazing, gouging and other technologies** – gases and expertise for all your fabrication needs



Air Products' innovations

- **Maxx[®] shielding gases** – our unique range of gases, delivering the best combination of quality, productivity and safety. Achieve more with fewer rejects when welding carbon steel, stainless steel, aluminium or high-performance alloys.
- **Integra[®] cylinder** – our revolutionary Integra[®] cylinder offers a smaller, lighter and safer alternative to conventional cylinders. The Integra[®] cylinder's advantages include: built-in regulator protected by an easy-to-handle guard; high volume 300 bar technology and customer quick connect gas coupling.
- **High-volume 300 bar cylinder technology** – our compressed gases are available in high-volume 300 bar single cylinders and cylinder packs.
- **BIP[®] technology** – when dealing with the most reactive materials or sensitive process equipment such as lasers, our patented BIP cylinder technology is the best solution to achieve ultra-low levels of critical impurities.
- **CryoEase[®] service** – our flexible gas supply solution which combines compact storage tanks with regular replenishment by small vehicles, provides an alternative to handling more than 10 cylinders a month or cylinder packs.
- **LIN cooling** – our patented cryogenic nitrogen cooling technology which helps you achieve the highest quality thermal spray coatings and reduce manufacturing costs, through improved process efficiency and elimination of waste.

CryoEase[®] service
= replacing cylinders,
dewars and packs with the
convenience of bulk supply



Maxx[®] shielding gases = improved weld quality



Easy from order to supply

You can order all products online using APDirect at any time of the day.

If you prefer the personal touch, you can contact your local Air Products customer service team.

Should you require only cylinders, or need the flexibility to collect gases at short notice, our extensive network of local agents provides the best option.

If you have bulk gas supply, our telemetry systems ensure that your tank is automatically replenished.

Advice that helps your business

Our team of metal fabrication experts will help you optimise your processes and demonstrate how alternative gases could be considered to help bring improvements to your production process.

Product and safety training

We offer a wide range of standard and tailor-made training courses covering the most common fabrication technology, process and safety.

Analytical and audit services

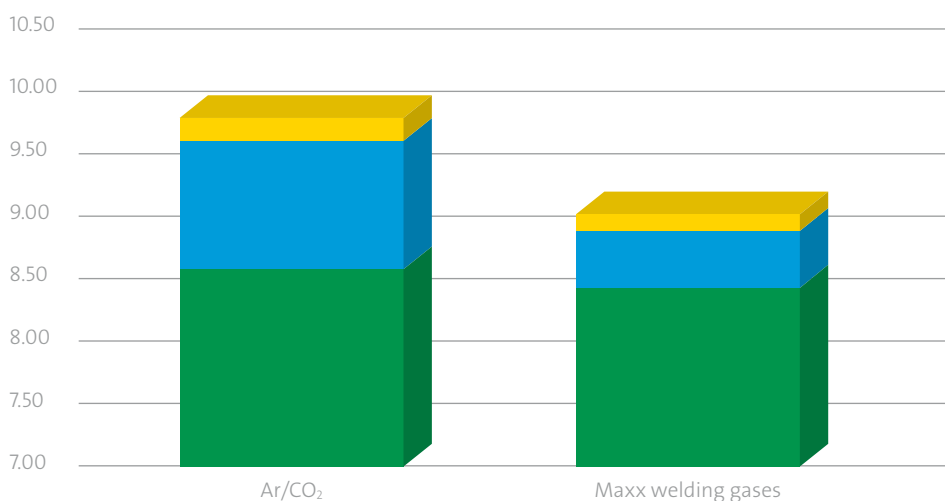
Our application engineers will work with you to identify and understand problem areas. Services include leak-detection, gas analysis and process review.

Equipment which meets your needs

Air Products offers solutions from complete turn-key installations to simple cylinder connectors. Our engineers design and commission installations which meet the highest standards in safety and productivity. Our depots and agents stock a wide range of gas control equipment and accessories, selected with efficiency and safety in mind.

Example cost/meter in €

- Gas costs (rental and transport included)
- Wire costs
- Labour and overhead costs









Bulk gas supply = cost-effective solutions for large volume users

A complete range of gas supply solutions

Air Products provides a complete range of gas and supply options to match your requirements. We will work with you to choose the most cost effective and convenient method of supply. As acknowledged leaders in safety, you can be confident that your workplace will be using the latest industry standards.

Supply format	Application	Gases available	
<p>Single cylinders</p> 	<p>Cylinders are the flexible and portable solution. All gases and gas mixtures are available in a range of convenient cylinder sizes, including the unique Integra® cylinder – our safest cylinder yet.</p>	<ul style="list-style-type: none"> ■ Acetylene ■ Argon ■ Carbon Dioxide ■ Helium ■ Hydrogen ■ Nitrogen ■ Oxygen 	<ul style="list-style-type: none"> ■ Shielding gas and other high-performance mixtures
<p>High volume cylinder packs</p> 	<p>Multi-cylinder packs offer a convenient and safe mode of supply for high volume cylinder gas users. Specially designed DNV* certified offshore cylinder packs are available worldwide.</p> <p><small>* Det Norske Veritas</small></p>	<ul style="list-style-type: none"> ■ Acetylene ■ Argon ■ Carbon Dioxide ■ Helium ■ Hydrogen ■ Nitrogen ■ Oxygen 	<ul style="list-style-type: none"> ■ Shielding gas and other high-performance mixtures In-house piping available.
<p>CryoEase® microbulk solutions</p> 	<p>The gas-on-tap alternative to large quantities of cylinders. CryoEase® tanks are small and easy to install. They are available in a variety of sizes and should be considered when demand reaches 10 or more cylinders a month.</p>	<p>Standard pressure CryoEase® Service:</p> <ul style="list-style-type: none"> ■ Argon ■ Carbon Dioxide ■ Nitrogen ■ Oxygen 	<p>Tanks for single use or on-site mixing of shielding gases and other high-performance mixtures</p> <p>High pressure CryoEase® service:</p> <ul style="list-style-type: none"> ■ Nitrogen
<p>Bulk liquid gases</p> 	<p>On-site bulk tanks are the best option for high volume users.</p> <p>We offer complete turn-key solutions for any application. Our engineers design and commission installations which meet the highest standards.</p> <p>Our telemetry system option monitors your consumption and automatically reorders to ensure continuous production.</p>	<p>Liquid bulk:</p> <ul style="list-style-type: none"> ■ Argon ■ Carbon Dioxide ■ Nitrogen ■ Oxygen <p>High pressure liquid bulk:</p> <ul style="list-style-type: none"> ■ Argon ■ Oxygen ■ Nitrogen 	<p>Other products</p> <ul style="list-style-type: none"> ■ Helium ■ Hydrogen <p>Tanks for single use or on-site mixing of shielding gases and other high-performance mixtures</p>



Maxx[®] shielding gases
= a safe and healthy
work environment



Air Products (NYSE:APD) serves customers in industrial, energy, technology and healthcare markets worldwide with a unique portfolio of atmospheric gases, process and specialty gases, performance materials, and equipment and services. Founded in 1940, Air Products has built leading positions in key growth markets such as semiconductor materials, refinery hydrogen, home healthcare services, natural gas liquefaction, and advanced coatings and adhesives. The company is recognized for its innovative culture, operational excellence and commitment to safety and the environment.

tell me more

For more information
please contact us at:

Belgium

Air Products N.V,
Chaussee de Wavre 1789,
Waversesteenweg,
B-1160, Bruxelles/Brussel
Tel +32(0)800 0031 0032
Email beinfo@airproducts.com
www.airproducts.be

Czech Republic

Air Products spol. s r.o.
Ke Káblu 28
9102 00 Praha 10
Tel 800 100 700
Intl +420 272 119 111
Email infocz@airproducts.com
www.airproducts.cz

France

Air Products S.A.S.
78 Rue Championnet,
75881 Paris Cedex 18
Tel +33(0)800 48 00 30
Email frinfo@airproducts.com
www.airproducts.fr

Germany

Air Products GmbH,
Rensingstraße 15
44807 Bochum
Tel +49(0)234 6105 60
Email apginfo@airproducts.com
www.airproducts.de

Italy

SAPIO Produzione Idrogeno Ossigeno
SRL,
Via Silvio Pellico 48,
20052 Monza (Mi)
Tel +39(0)39 83981
Email gruppo@sapio.it
www.sapio.it

Portugal

Gasin
Rua do Progresso, 53 – Perafita,
Apartado 3051 – Leça,
4456 Matosinhos Codex
Tel +351 22 999 8300
Email info@gasin.com
www.gasin.com

Slovakia

Air Products Slovakia s.r.o.
Mlynské nivy
74821 05 Bratislava
Tel 0800 100 700
Email infosk@airproducts.com
www.airproducts.sk

Spain

Carbueros Metálicos, S.A.
Aragó 300, 08009 Barcelona
Tel +34 93 290 2600
Email infoes@carbueros.com
www.carbueros.com

The Netherlands

Air Products Nederland B.V.,
Postbus 37601,
1030 BA Amsterdam,
Klaprozenweg, 101
1003 NN Amsterdam
Tel +31(0)0800 00312 0032
Email nlinfo@airproducts.com
www.airproducts.nl

United Kingdom

Air Products PLC
2 Millennium Gate
Westmere Drive
Crewe CW1 6AP
Tel 0800 389 0202
(Outside UK +44(0)1270 614314)
Email apukinfo@airproducts.com
www.airproducts.co.uk

