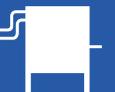


# Simply High Performance



SMARTOP™



On-site mixer

# ARCAL™ : forward through innovation

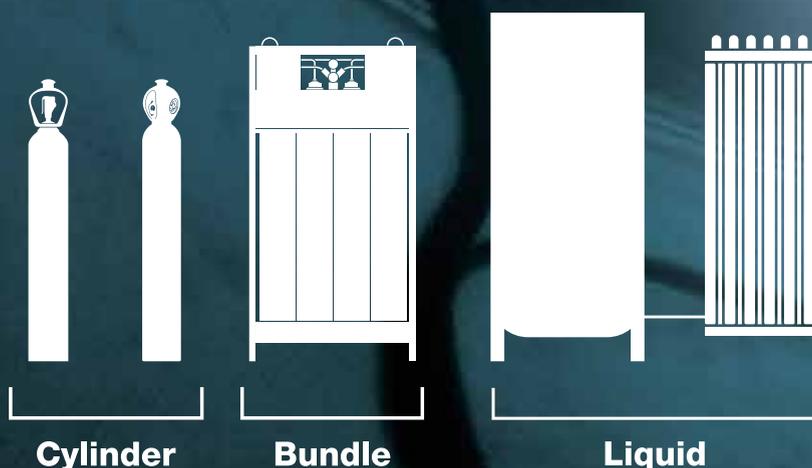
At Air Liquide we see the shielding gases for arc welding differently. In a market featuring a multitude of similar products, we aim at helping you with a clever offer. And we believe that clever doesn't have to be complex.

Actually simple is a lot smarter. It's only then that you can concentrate on the issues that truly count for your welding operations, like ensuring the confidence that comes with a gas solution that's reliable, simple and always high performing.

This is the approach that Air Liquide's ARCAL™ brings to the users. We have put the simple back into arc welding, without taking away any of our quality and safety. Through a spirit of innovation and a commitment to high performance with simplicity, we aim at pushing the welding gas market forward.

## A supply mode adapted to your needs

ARCAL™ products are available in cylinders, bundles or in liquid form according to your needs. Whatever your consumption, we provide our gases and mixtures with the best supply mode ensuring quality, consistency and ease of use.





## SMARTOP™ INCLUDED

ARCAL™ cylinders benefit from our SMARTOP™ innovative valve: a residual pressure valve equipped with an on/off lever and a permanent pressure gauge.  
In option: also available with ALTOP™.

Whichever product you choose,  
you can trust that our  
**ARCAL™** gas solutions offer:



## Reliability

**ARCAL™** products offer guaranteed quality you can trust. Pure and stable, our gases and mixtures are compliant with ISO 14175 and AWS-A5.32 standards and are strictly prepared to reach the highest standards and packaged to be handled safely. This means that whichever product you choose, you get the high quality shielding gas you need, for the duration you need it. Whether mixed on-site or delivered in cylinders, your **ARCAL™** product remains consistent wherever you are.



## Simplicity

At **Air Liquide** everything is done to ensure ease. Not just in how our products can be used, but in how our relationship with you as customers grows. From innovative **SMARTOP™** valves or on-site mixers that no other company can offer, to a network of welding experts that ensure support across the world, with **ARCAL™** you can be assured that simple is smartest.



## Performance

We believe that performance only matters when coupled with productivity. This is why each **ARCAL™** product is selected for its superior welding characteristics. With minimised oxidation and spatter rates, and lower defect rates, we make sure that our solutions always offer higher productivity and increased efficiency for you.



## Peace of mind

The reliability of our products, the simplicity of our offer and the partnership of high performance and high productivity all mean that you can do your shielding operations with utmost confidence. We are always innovating and looking to improve, to drive our sector forward and better meet your arc welding needs.

# Our reference line

4 ready-to-weld Argon mixtures to cover practically any welding situation or circumstance. Each one is designed to be reliable, simple and high-performing, each and every time, no matter when you need it, where you need it and how much you need.



## ARCAL™ Prime

**ARCAL™ Prime** is the primary high quality shielding product for the most demanding welding situations. Offering TIG and plasma welding of all materials including titanium, MIG welding of aluminium and copper alloys, as well as universal root shielding of all materials, 99.998% Argon ensures perfect quality of the weld bead. **ARCAL™ Prime** is simply the pure gas solution for your arc welding needs.



## ARCAL™ Chrome

**ARCAL™ Chrome** is the simplest efficient gas mixture for all stainless steel MAG welding situations. This product is carefully selected to match with Chromium - the key component of steels for corrosion resistance. From household appliances to chemical vessels and pipes, for both austenitic and ferritic stainless steels, **ARCAL™ Chrome** offers brilliant welding performance with clean weld aspect.



## ARCAL™ Speed

Expertly mixed for high travel speed and high deposition rate MAG welding of carbon steels, **ARCAL™ Speed** is the essential arc welding gas for when time is of the essence. It is the perfect product for automatic and robotic applications. Highly adaptable with low fume and spatter emission that reduces post-welding operations, everything about **ARCAL™ Speed** is designed for the highest productivity at the highest quality.



## ARCAL™ Force

The powerful ready-to-weld solution for MAG welding of heavy carbon steel structures. From earthmoving and agricultural equipment to bridge building and ship modules, **ARCAL™ Force** has been designed with heavy use in mind. No matter the surface – oxidised or contaminated, gap or mismatch – it is extremely tolerant to preparation. So whatever your heavy structure arc welding needs, **ARCAL™ Force** is ready for them.

# Our technical line

There are times, however, when you need that little bit extra. When the circumstance demands a product ready for particular high-end specifications. For these situations, we have our technical line of products: specific shielding mixtures, designed for refined needs and performance, while supported by our global network of technical experts.

Air Liquide's Industrial Merchant Business Line delivers industrial gases and innovative solutions, including application technologies, equipment and services. From independent professionals to large industrial companies, our 33,500 employees serve over 2 million customers daily across 75 countries. They use their unmatched business and technical capabilities to develop gas solutions that boost the performance of industries and help them to increase product quality, unlock greater competitiveness and minimize the environmental footprint of their manufacturing processes.

**Contact us**

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The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 65,000 employees and serves more than 3 million customers and patients.