

**Airgas** | **ARCAL™**  
an Air Liquide company

# Simply High Performance



SMARTOP™



EXELTOP™



On-site mixer

# ARCAL™

## Forward through innovation

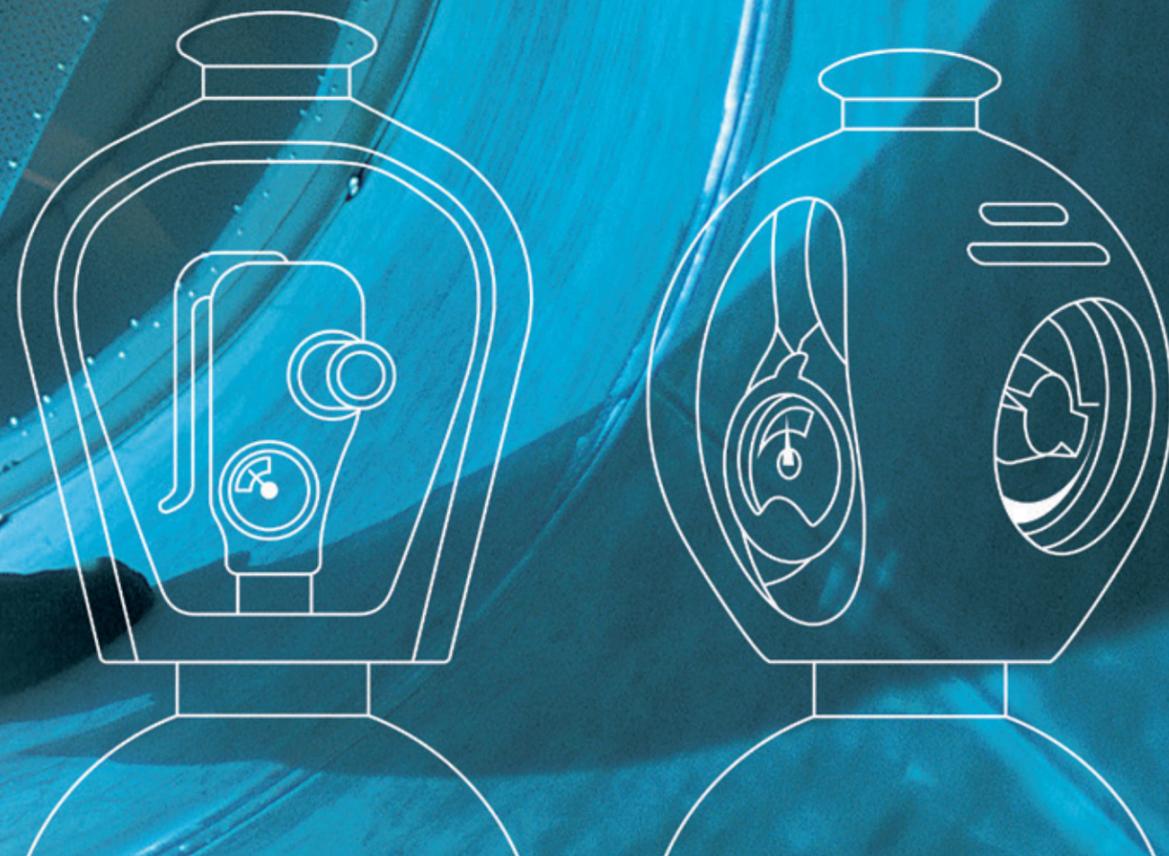
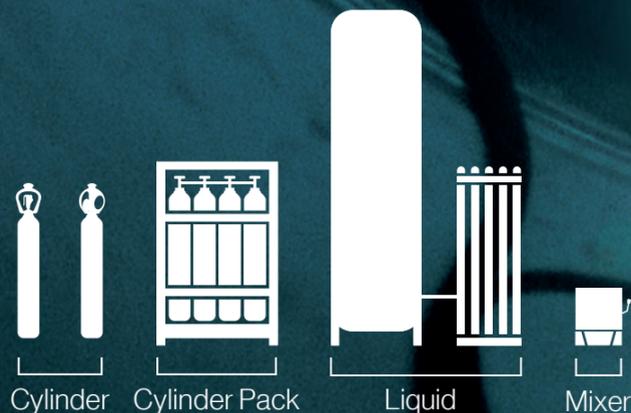
At Airgas, an Air Liquide company, we see welding gases for arc welding differently. In a market featuring a multitude of similar products, we can help with our simple but smart offer. Because smart doesn't always have to be complex.

Simpler is in fact much smarter! Keeping it simple allows you to concentrate on the issues that truly count for your welding operations, like ensuring the confidence that comes with a gas solution that's consistently reliable, simple and always high performing.

This is the approach that ARCAL brings. We have simplified arc welding, without sacrificing quality, safety and consistency. Through a spirit of innovation and a commitment to high performance with simplicity, we aim to help push the welding gas market forward.

### A supply mode adapted to your needs

ARCAL products are available in cylinders, cylinder packs or in liquid form according to your needs. Whatever your consumption, we provide our gases and mixtures in multiple supply modes designed for quality, consistency and ease of use.



### SMARTOP™ and EXELTOP™

All ARCAL™ cylinders benefit from our innovative SMARTOP and EXELTOP valves. SMARTOP is a residual pressure valve equipped with an on/off lever and a permanent pressure gauge. EXELTOP includes these plus a built-in, two-stage regulator and a quick-connector to the welding gas line.

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



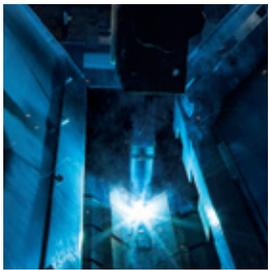
## Reliability

Today, most available welding gases do not consistently meet the AWS requirement of  $\pm 10\%$  for the minor component. This can cause significant variances in weld quality. ARCAL exceeds AWS-A5.32/ISO 14175 requirements. Our gases are strictly prepared to maintain a tight tolerance of the minor component, and packaged to be handled safely. This means no matter what ARCAL product you choose, you get the highest quality and most consistent welding gas, the first time and every time.



## Simplicity

At Airgas everything we do is designed to make your job easier. Not just how our products can be used, but how our relationship with you as a customer grows. From innovative SMARTOP™ and EXELTOP™ valves and unique on-site mixers to a network of welding experts that ensure support locally and nationally, the ARCAL offer is simple.



## 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 minimized oxidation and spatter rates, and lower defect rates, we make sure our solutions are always consistent and offer you increased productivity and efficiency.



## 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 have the utmost confidence in your welding operations. We are here with you, to help drive our industry forward and to better meet your arc welding needs.

# Our Reference line

Five ready-to-weld pure argon and argon gas mixtures cover practically any welding application. Our consistent gas mixtures exceed AWS A-5.32/ISO 14175 tolerance requirements and are 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.



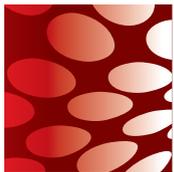
## ARCAL™ Prime

ARCAL Prime is the primary high quality shielding product for the most demanding welding situations. Offering TIG (GTAW) and plasma welding of all materials including titanium, MIG (GMAW) welding of aluminum and copper alloys, as well as universal root shielding of all materials, 99.998% argon (Ar) 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 and most efficient gas mixture for all stainless steel MIG (GMAW) 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

ARCAL Speed is expertly mixed for high travel speed and high deposition rate for MIG welding of carbon steels when time is of the essence. It is the perfect product for automated 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

ARCAL Force is ready for any heavy structure arc welding needs. This is the powerful ready-to-weld solution for MIG welding of heavy carbon steel structures. From earth-moving and agricultural equipment to bridge building and ship modules, ARCAL Force has been designed with heavy use in mind. No matter the surface – oxidized or contaminated, gap or mismatch – it is extremely tolerant to preparation.



## ARCAL™ Flux

ARCAL Flux is the carbon and stainless steel all-purpose welding gas mixture designed specifically for FCAW applications. ARCAL Flux has excellent short-circuit welding characteristics and is perfect for open root welding of pipe. These carefully prepared gas mixtures deliver consistent results for all types of structures, every time you weld.

# Our Technical line

There are times, however, when the circumstance demands a product ready for particular high-end specifications. For these situations, we have our Technical line of products: specific welding mixtures, designed for refined needs and performance, fully supported by our local network of technical experts.

## Airgas, an Air Liquide company

A leading U.S. supplier of industrial, medical and specialty gases, as well as hardgoods and related products; one of the largest U.S. suppliers of safety products; and a leading U.S. supplier of ammonia products and process chemicals.

Dedicated to improving the performance of its more than one million customers, Airgas safely and reliably provides products, services and expertise through its more than 18,500 associates, 80+ welding process specialists, over 1,400 locations, robust e-Business platform, and Airgas Total Access<sup>®</sup> telesales channel.

As an Air Liquide company, the world leader in gases, technology and services for Industry and Health, Airgas offers customers an unrivaled global footprint and industry-leading technology and innovations.