**Our Reference line**

Cover practically any welding application with five ARCAL™ products for everyday needs. Our consistent gas mixtures exceed AWS A-5.52/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 welding product for the most demanding welding situations. Offering TIG (GTAW) and plasma welding of all materials including titanium, MAG (GMAW) welding of aluminum and copper alloys, as well as universal root welding 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 perfect 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 Chrome**
  ARCAL Chrome is the primary high quality welding product for the most demanding welding situations. Offering TIG (GTAW) and plasma welding of all materials including titanium, MAG (GMAW) welding of aluminum and copper alloys, as well as universal root welding 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 Flux**
  ARCAL Flux is the carbon and stainless steel all-purpose welding gas mixture specifically designed 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 circumstances demand a special blend with tight specifications. For these applications, 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.

- **ARCAL Prime**
  ARCAL Prime is the primary high quality welding product for the most demanding welding situations. Offering TIG (GTAW) and plasma welding of all materials including titanium, MAG (GMAW) welding of aluminum and copper alloys, as well as universal root welding 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 perfect 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 Chrome**
  ARCAL Chrome is the primary high quality welding product for the most demanding welding situations. Offering TIG (GTAW) and plasma welding of all materials including titanium, MAG (GMAW) welding of aluminum and copper alloys, as well as universal root welding 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 Flux**
  ARCAL Flux is the carbon and stainless steel all-purpose welding gas mixture specifically designed 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.

**Airgas, an Air Liquide company**

A leading U.S. supplier of industrial, medical and specialty gases, as well as handtools 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. Dicated to improving the performance of its more than one million customers, Airgas safety and reliability provides products, services and expertise through its more than 18,000 associates, 90+ welding process specialists, over 1400 locations, robust e-Business platform, and Airgas Total Access® telesales channel.

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

Contact us:
800.909.8058 | info@airgas.com
Airgas.com
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 isn’t just about making things simpler. It’s about making you a better welder. Our gases are specifically designed for your welding operation, like ensuring the confidence you need in a gas solution that’s consistently reliable, simple, and safe.

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

A supply mode adapted to your needs
ARCAL products are available in cylinders, cylinder packs or in liquid form, depending on 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 EXEL TOP™
All ARCAL™ cylinders benefit from our innovative SMARTOP™ and EXEL TOP™ valves. SMARTOP is a residual pressure, non-return valve that acts like a check valve, equipped with an on/off lever and a permanent pressure gauge. EXEL TOP includes these plus a built-in, two-stage regulator and a quick-connector to the welding gas line.

Reliability
Today, most available welding gases do not consistently meet the AWS requirement of ±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 on the minor component, and packaged to be handled safely. This means no matter what ARCAL product you choose, you get the highest quality, 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 EXEL TOP™ 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. That’s why each ARCAL product is selected for its superior welding characteristics. With minimised oxidation and spatter rates, and fewer defective welds, 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 there with you, to help drive your industry forward and to better meet your arc welding needs.
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 ±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 EXEL TOP™ 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.
Airgas, an Air Liquide company

A leading U.S. supplier of industrial, medical and specialty gases, as well as handtools 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 18,000 associates, 90+ welding process specialists, over 1,400 locations, robust e-Business platform, and Airgas Total Access® 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.

Our Reference line

Cover practically any welding application with five ARCAL™ products for everyday needs. Our consistent gas mixtures exceed AWS A5.20/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 welding of all materials, 98.998% argon (Ar) ensures perfect quality of the weld bead. ARCAL Prime is simply, the airgas solution for your arc welding needs.

**ARCAL Chrome**

ARCAL Chrome is the specialized 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 speed is the essence. It is the perfect product for automated and robotic applications. Highly adaptable with fine tuning and pattern emulsion 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 section steel structures. From earth-moving and agricultural equipment to bridges building and into 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 mixtures designed specifically for FCAW applications. ARCAL Flux has excellent short-circuit welding characteristics and a 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 circumstances demand a special blend with tight specifications. For these applications, 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.

Contact us:

800.909.8058 | info@airgas.com

Airgas.com
Simply High Performance

Our Reference line

Cover practically any welding application with five ARCAL™ products for everyday needs. Our consistent gas mixtures exceed AWS A 5.20/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 welding gas for the most demanding welding situations. Offering TIG (GTAW) and plasma welding of all materials including titanium, MAG (GMAW) welding of aluminum and copper alloys, as well as universal root welding 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 balanced and most efficient gas mixture for all stainless steel MAG/SAW welding situations. This product is carefully selected to match with chromium—the key component of steels for corrosion resistance. Form house of 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 MAG welding of carbon steels where time is of the essence. The perfect product for automated and robotic applications. Highly adaptable with a 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 MAG welding of heavy carbon steel structures. From earth-moving and agricultural equipment to bridge building and into 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 circumstances demand a special blend with tight specifications. For these applications, 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 safety and reliability provide products, services and expertise through its more than 9,700 associates, 90+ welding process specialists, over 1,400 locations, robust e-Business platform, and Airgas Total Access® telesales channel.

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

Contact us:
800.909.8058 | info@airgas.com
Airgas.com

MCM-484 | ©2021 Airgas, Inc. | Printed in the U.S.A.