A Member of
The Linde Group | AGA

Do you let ozone attack your health?

Avoid harmful ozone.

– use MISON® shielding gases every time you weld.

Whenever you weld, harmful ozone is formed. Even in well ventilated workshops, ozone may sneak into your welding mask and attack your health. Fortunately, it is easy to avoid.

Ozone attacks your health

The most common symptoms of an ozone attack from welding are: Annoying headaches, sensations of dryness, coughing and irritation in the eyes, nose and throat. These are the consequences of harmful ozone levels arising from welding with standard shielding gas. Many welders experience the symptoms, but do not link them to the welding. The ozone is invisible, but it is there and it is harmful to your health.

MISON® shielding gases protects you from ozone

MISON® shielding gases reduce the amount of harmful ozone to a minimum. This means that, when using MISON® shielding gases, you are protected from the unpleasant and hazardous symptoms caused by ozone, when you weld.

Better welding results with MISON® shielding gases

Besides protecting your health, MISON® shielding gases often improves both quality and productivity. This is due to the optimum composition of MISON® shielding gases, which gives a more stable arc and makes is easier to control the welding process.

Ozone causes:

- → Headaches
- → Irritation in eyes, nose and throat
- → Risk of long term lung damages
- → Reduced efficiency

MISON® shielding gases ensures:

- → Better health in long and short term
- → Improved weld quality
- → Faster welding

Standard or Premium?

MISON® shielding gases belongs to AGA's premium product range. What does that imply?

Generally speaking, premium products is something for you who would like to have something extra, such as higher safety, a better working environment or even a more rational gas management system.

While standard products are made for you who would like to a have a product that simply does the job. Good enough and no extras.

As an example, CORGON® shielding gases belongs to this latter group of standard products.

Premium products costs a bit more than standard products, but they can offer values which outshine standard products when it comes to price, be it in working environment, productivity or increased safety.

All AGA shielding gases fulfils the requirements according to the international shielding gas standard EN ISO 14175.

You will find more information about our whole shielding gas program at www.aga.com.

MISON® shielding gases.

For lower health risks.

Method	Materials	Shielding gas	Composition
TIG welding	All materials except Titanium	MISON® Ar	Ar + 0,03%NO
	Austenic stainless steels and Nickel alloys	MISON® H2	Ar + 2%H2 + 0,03%NO
	High-alloy stainless steels, Nickel alloys, Aluminium and Copper	MISON® He30	Ar + 30%He + 0,03%NO
	Duplex stainless steels and Austenitic stainless steels alloyed with Nitrogen	MISON® N2	Ar + 1,8%N2 + 30%He + 0,03%NO
MIG welding	Aluminium, High-alloy stainless steels, Copper and Nickel alloys	MISON® Ar	Ar + 0,03%NO
	High-alloy stainless steels, Nickel alloys, Aluminium and Copper	MISON® He30	Ar + 30%He + 0,03%NO
MAG welding	All stainless steels	MISON® 2	Ar + 2%CO_2 + 0,03%NO
	Austenitic, Ferritic and Standard duplex steels.	MISON® 2He	Ar + 2%CO_2 + 30%He + 0,03%NO
	Unalloyed and Low-alloy steels with solid and metal-cored wires.	MISON® 8	Ar + 8%CO_2 + 0,03%NO
	Unalloyed and Low-alloy steels with solid and flux-cored wires. Stainless steels with suitable flux-cored wires.	MISON® 18	Ar + 18%CO_2 + 0,03%NO
	Unalloyed and Low-alloy steels with solid and flux-cored wires. Stainless steels with suitable flux-cored wires.	MISON® 25	Ar + 25%CO_2 + 0,03%NO
Remarks	First hand choice		
	Gives further productivity benefits with the right conditions		

MISON® Ar

Ar + 0.03%NO

An all-round choice for TIG welding that provides an easy-to-strike and stable arc. For the MIG welding of Aluminum, high-alloy stainless steels and Copper and Nickel alloys. Stable process without spatter. Very good for the MIG brazing of galvanized steels.

EN ISO 14175-Z-Ar+NO-0,03

Corresponds to Group I1

MISON® N_2

Ar + 1,8%N_2 + 30%He + 0.03%NO

For the TIG welding of duplex stainless steels and for austenitic stainless steel alloyed with Nitrogen. Nitrogen in the gas limits Nitrogen loss from the weld, providing better corrosion resistance and good mechanical properties. It can also be used for the MIG welding of super-austenitic and super-duplex steels.

EN ISO 14175-Z-ArHeN+NO-30/1,8/0,03

Corresponds to Group N_2

MISON® 8

Ar + 8%CO_2 + 0.03% NO

For the MAG welding of unalloyed and low-alloy steels with solid and metalcored wires. It's mainly intended for spray arc and pulsed arc. Provides high welding speed, little spatter and surface slag, low weld reinforcement and efficient electrode consumption. It is the best choice for high-productivity welding with robots and other mechanized processes.

EN ISO 14175-Z-ArC+NO-8/0,03

Corresponds to Group M20

MISON® H_2

Ar + 2%H_2 + 0.03%NO

For the TIG welding of austenitic stainless steels and Nickel alloys. Hydrogen provides a hotter, more constricted arc for better welding speed, better penetration and a smoother transition between weld and base metals. Hydrogen also reduces oxidation on the weld bead.

EN ISO 14175-Z-ArH+NO-2/0,03

Corresponds to Group R1

MISON® 2

Ar + 2%CO_2 + 0.03%NO

An all-round gas for the MAG welding of austenitic and ferric stainless steels, as well as for standard duplex steels. For short arc, spray arc and pulsed arc. Low spatter and surface slag.Flat weld beads.

EN ISO 14175-Z-ArC+NO-2/0,03

Corresponds to Group M12

MISON® 18

Ar + 18%CO_2 + 0.03% NO

For the MAG welding of unalloyed and low-allow steel with solid and flux cored wires. Suitable, with certain exceptions, for pulsed welding and for the welding of stainless steel with rutile flux cored wires. Low weld reinforcement and little patter in all modes of arc transfer. An all-round gas for a wide variety of applications.

EN ISO 14175-Z-ArC+NO-18/0,03

Corresponds to Group M21

MISON® He30

Ar + 30%He + 0.03%NO

For the TIG welding and MIG welding of some high-alloy stainless steels, Nickel alloys, Aluminum and Copper. Helium provides a very good fluidity of the weld pool, better penetration, higher welding speed and a reduced need for preheating.

EN ISO 14175-Z-ArHe+NO-30/0,03

Corresponds to Group I3

MISON® 2He

Ar + 2%CO_2 + 30%He + 0.03%NO

For the MAG welding of austenitic and ferric stainless steels and for standard duplex steels. For short arc, spray arc and pulsed arc. Low spatter and surface slag. Good penetration and high welding speed.

EN ISO 14175-Z-ArHeC+NO-30/2/0,03

Corresponds to Group M12

MISON® 25

Ar + 25%CO_2 + 0.03%NO

For the MAG welding of unalloyed and low-alloy steel with solid and flux cored wires and for the welding of stainless steel with rutile flux cored wires. Good fluidity of the weld pool in short-arc welding. Excellent resistance to impurities in spray -arc welding. Especially preferred in short-arc and sprayarc welding when there are tightness requirements set on the welds and when welding conditions are unfavorable.

EN ISO 14175-Z-ArC+NO-25/0,03

Corresponds to Group M21

Getting ahead through innovation.

With its innovative concepts, AGA is playing a pioneering role in the global market. As a technology leader, our task is to constantly raise the bar. Traditionally driven by entrepreneurship, we are working steadily on new high-quality products and innovative processes.

AGA offers more. We create added value, clearly discernible competitive advantages and greater profitability. Each concept is tailored specifically to meet our customers' requirements – offering standardized as well as customised solutions. This applies to all industries and all companies regardless of their size.

AGA – ideas become solutions.

AGA GAS AB
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