

Creating a Professional Environment

"Le Catalogue"



www.weldline-alw.com





Le Catalogue



WELDLINE is the "Welder's Environment" brand of the Air Liquide Welding group. This brand offers a large range of tools and accessories dedicated to welding applications (cables, earth clamps, brushes and hammers, sprays...) as well as individual protective equipment for the welder (gloves, clothes, goggles, masks...) and for his environment (strips curtains, etc..).

The WELDLINE products are available through the commercial networks of the Air Liquide Welding group (OERLIKON, SAF-FRO or CEMONT). Continuous research on the best products, permanent availability, high quality products at the right price, compliance with the most rigorous European standards, are the main master words that describe the WELDLINE offer with a major objective: the customer's satisfaction...

This trademark is a triple commitment of the Air Liquide Welding group:

The choice of quality products

Chosen by an international team, WELDLINE products comply with European standards, aiming to meet customer requirements better.

Balancing quality with price

The purchasing power of the Air Liquide Welding group for the benefit of its customers.

Optimised logistics

Single image, single stock, single numbering to increase product availability.





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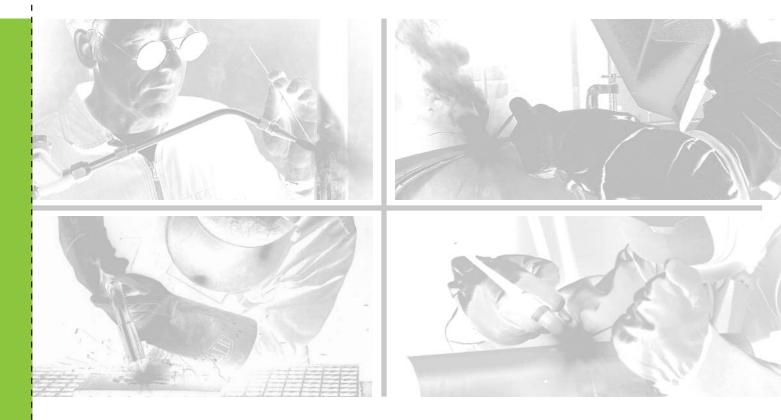
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PROTECTION 1-Personnal protection equipment



Helmets and handshields	6 to	11
Welding glasses	12 to	13
Electronic helmets	14 to	19
Goggles / spectacles	20 to	23
Leather clothes	24 to	29
Gloves	30 to	34
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Helmets



Choice of head protection

Passive products (handshields and

helmets) would be chosen for punctual or discontinue use. In case of continual welding, **a helmet** is necessary.

Handshields and passive helmets offer **light duty** or **heavy duty** products:

- Light duty: you will prefer thermoplastic products (light, low price, flexible)
- **Heavy duty**: generally polyester with fibreglass (heat resistant, spatters resistance)

The **size of the window** depends on countries habits.

All products have to be in accordance with EU standards and the CE marking is mandatory: EN 175.



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Helmets



PERSONNAL PROTECTION EQUIPMENT

An **Electronic helmet** allows the welder to be immediately and automatically protected when the welding operation begins. The result is a better efficiency, a better comfort, and at least a better result. Electronic helmets exist with fixed or variable shade.

The choice depends on the welding process.



All products have to be in accordance with EU standards and the CE marking is mandatory: EN 175.



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Passive handshields



Light duty solutions





EN 175

Hand FG

• Weight: 424 gr

Sliding window

Cat N°: W000011123

110 x 90 mm

2011-483

(sliding window)

• Reinforced fibreglass

• Delivered without glass

Handshield

Heavy duty solutions

Hand FG

- Polyester reinforced fibreglass
- Excellent resistance to high temperatures (up to 400 °C) and to spatters
- UV/IR protection shade 11
- Excellent thermal and electrical isolation
- Delivered without glass
- Weight: 424 gr (without glass)



Window 105 x 50 mm

Window 110 x 90 mm

Cat N°: W000372273

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-830 2007-

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Passive helmets



Light duty solutions

Helmet TP

- Thermoplastic helmet
- Single window 108 x 51 mm, 98 x 75 mm or 110 x 90 mm
- Adjustable "B" headgear
- Delivered without glass
- Weight: 420 gr



Cat N°: W000011113

EN 175

Helmet

Window 98 x 75 mm

Cat N°: W000011114



2011-481

PERSONNAL Protection Equipment

Flip-up WTP helmet

- Thermoplastic helmet
- Thermal resistance up to 100 °C
- Adjustable "B" headgear
- Delivered without glass
- Light weight: 450 gr



Cat N°: W000372270

Flip-up window 110 x 90 mm

Cat N°: W000374762

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Passive helmets



2007-832

Heavy duty solutions **EN 175**

Helmet FG

- Reinforced fibreglass
- High thermal resistance up to 400 °C
- Adjustable "B" headgear
- Delivered without glass
- Weight: 414 gr

Window 105 x 50 mm

Cat N°: W000011103

Window 110 x 90 mm

Cat N°: W000011104



Flip-up helmet FG

- Reinforced fibreglass
- High thermal resistance up to 400 °C
- Adjustable "B" headgear
- Delivered without glass
- Weight: 574 gr

Flip-up window 105 x 50 mm Cat N°: W000372271

Weldlux

• Enveloping profile providing excellent throat and neck protection

Helmet

- Fibreglass reinforced polyester
- Heat (170 °C) and humidity resistant
- and very comfortable
- Delivered with headgear and glass
- Very light weight: 390 gr

Extra wide window 114 x 133 mm

Cat N°: W000335131

0947075

• Headgear with rack, rugged and very comfortable • Complete with headgear, sweat band, 2 flip-up lensholder welding lens Shade 10

Flip-up window 105 x 50 mm

Multi Flip-up

Light weight

Long lifetime

welding helmet

• Optimal use/comfort

Cat N°: W000010804

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- - Headgear with rack, rugged

2014-563

Passive helmets leather

WELC

Leather helmets in for welding operations in difficult access place, dedicated to short time applications and control.

Folding leather helmet

- Grain leather
- Folding model, ideal for supervisors
- Very light (120 grammes)
- Delivered with 105 x 50 mm shade 11 glass



Flip-up leather helmet

- · Ideal to work in extremely restricted areas
- Adjustable headgear
- Comfort foam at the forehead and chin levels
- Delivered with one 105 x 50 mm shade 11 glass and two CR39 protection screens



Spare parts

Adjustable type "A" headgear



Cat N°: W000335158

Adjustable type "B" headgear



Leather protection for the neck

- Grain leather
- Fixation with adhesive band
- · Protection of the neck against arc radiation

Cat N°: W000335139

Sweat band

Foam band

Cat N°: W000260486

(10 pieces pack)

Comfort sweat band

For WELDLUX helmet

- Fabric band covered with foam
- Velcro closing
- Fire-retardant

11

(2 pieces pack)

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-022

198-



Welding glasses

WELDGLASS

Choose the lens shade adapted to your working conditions

Current (A)		Coated	MIG	MIG	MAG		TIG	Gouging	PLASMA	PLASMA
1	el	ectrodes	Heavy metals	Light alloy					Cutting	Welding
2.5										6
5							8			7
10										8
20		8					9			9
30		9 -					10 -			10
40		Ŭ					10			- 11 -
60		10 -			9 -		11			
80			10						- 11 -	- 12 -
100			10		10		12	-		
150		11	- 11 -	- 11 -	- 11 -		_	- 10 -		
175						\vdash	13			- 13 -
200				12	12 -	\vdash	-	11 -	12	
225	\vdash	12	12 -						_	
250		-		10	13	\square	-	12		_
300				13	-		-		10	
350		_	 	-		\vdash	-	13	13	14
400	\vdash	13 -	13 -		14	\vdash	14	14		
450		_		14		\vdash	-			
500					15	\vdash	-	15		15
		14	14	15	15			15		15



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Welding glasses



WELDGLASS

Filtering coloured glasses

DIMENSION 105 x 50 mm

EN 169 - EN 166

Skin pack		Shade		Box
5 pieces	W000335009	5	W000010915	100 pieces
5 pieces	W000335010	6	W000010916	100 pieces
5 pieces	W000335011	7	W000010917	100 pieces
5 pieces	W000335012	8	W000010918	100 pieces
5 pieces	W000335013	9	W000010919	100 pieces
5 pieces	W000335014	10	W000010920	100 pieces
5 pieces	W000335015	11	W000010921	100 pieces
5 pieces	W000335016	12	W000010922	100 pieces
5 pieces	W000335017	13	W000010923	100 pieces

DIMENSION 110 x 90 mm

Skin pack		Shade		Box	
5 pieces	W000335035	5	W000010927	100 pieces	
5 pieces	W000335036	6	W000010928	100 pieces	
5 pieces	W000335037	7	W000010929	100 pieces	
5 pieces	W000335038	8	W000010930	100 pieces	
5 pieces	W000335039	9	W000010931	100 pieces	
5 pieces	W000335040	10	W000010932	100 pieces	
5 pieces	W000335041	11	W000010933	100 pieces	
5 pieces	W000335042	12	W000010934	100 pieces	
5 pieces	W000335043	13	W000010935	100 pieces	

SILVER PROTANE[®] glasses EN 169 - EN 166

Skin pack	Dimension 105 x 50 mm	Shade	Dimension 133 x 114 mm	Skin pack
5 pieces	W000335025	9	W000335063	5 pieces
5 pieces	W000335026	10	W000335064	5 pieces
5 pieces	W000335027	11	W000335065	5 pieces
5 pieces	W000335028	12	W000335066	5 pieces
5 pieces	W000335029	13	W000335067	5 pieces

The SILVER PROTANE $\ensuremath{^{\textcircled{\mbox{\scriptsize B}}}}$ glasses will prove their efficiency in all welding operations where the arc heat causes discomfort.

The SILVER PROTANE® filter with a gold mirror coating reflects an additional 90% of the infrared radiation and reduces the amount of heat

- the eyes are exposed to:
 - less irritation and therefore less tiredness,
 - more precision and better quality work,
- more comfort and better working conditions.

"Test SILVER PROTANE® and weld cool".

Protection glass or plate CR-39[®] EN 166

DIMENSION 98 x 75 mm				
Skin pack		Shade		Box
5 pieces	W000335089	5	W000010939	100 pieces
5 pieces	W000335090	6	W000010940	100 pieces
5 pieces	W000335091	7	W000010941	100 pieces
5 pieces	W000335092	8	W000010942	100 pieces
5 pieces	W000335093	9	W000010943	100 pieces
5 pieces	W000335094	10	W000010944	100 pieces
5 pieces	W000335095	11	W000010945	100 pieces
5 pieces	W000335096	12	W000010946	100 pieces
5 pieces	W000335097	13	W000010947	100 pieces

DIMENSION 108 x 51 mm

Skin pack		Shade		Box
5 pieces	W000335047	5	-	-
5 pieces	W000335048	6	W000010952	100 pieces
5 pieces	W000335049	7	W000010953	100 pieces
5 pieces	W000335050	8	W000010954	100 pieces
5 pieces	W000335051	9	W000010955	100 pieces
5 pieces	W000335052	10	W000010956	100 pieces
5 pieces	W000335053	11	W000010957	100 pieces
5 pieces	W000335054	12	W000010958	100 pieces
5 pieces	W000335055	13	-	-

Circular glasses diameter 50 mm

Shade	Skin pack - 10 pieces	Box - 100 pieces
5	W000335085	W000010925
6	W000335086	W000010937
7	W000335087	W000010949
8	W000335088	-
Clear	-	W000010979

Magnifying glass EN 166

Diopter	108 x 51 mm or 105 x 50 mm
+ 1.0	W000335031
+ 1.5	W000335032
+ 2.0	W000335033
+ 2.5	W000335034

For some precision welding, magnifying the work zone is necessary. These lenses must be used with coloured filtering glasses.

Dimension	Clear glass (EN 166)		Protection plate CR-39 [®] (EN 166)	
Dimension	Skin pack - 5 pieces	Box - 100 pieces	Skin pack - 5 pieces	Box - 150 pieces
98 x 75 mm	W000335098	W000010950	W000335100	W000335099
105 x 50 mm	W000335018	W000010926	W000335020	W000335019
108 x 51mm	W000335056	W000010962	W000335058	W000335057
110 x 90 mm	W000335044	W000010938	W000335046	W000335045
133 x 114 mm	W000335069	-	W000335071	W000335070

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CHAMELEON

2010-403

14

All the comfort and security of liquid crystal technology in a protecting and comfortable welding helmet.

- Covering shape for an optimised head protection.
- 4 plans adjustable head-gear delivered with comfort cushion (for CHAMELEON 4 V+).
- Auto-start: the LCD cell automatically turns on.

1

• Reset button: press the reset button twice to re-initialize the original parameters.



Delivered with 5 outside protection plates and 2 inside protection plates, 1 sweat band and 1 comfort cushion on the headgear

New: grinding mode

with external button



	1 CHAMELEON 3 VO	2 CHAMELEON 4 V+		
Applications	Every welding process. Recommended for MMA and MIG/MAG	Every welding process. Recommended for TIG		
Optical class	1/1/1/2	1/1/1/2		
Shade	Vari	able		
Dimensions	110 x 9	90 mm		
Weight	44	5 g		
Field of view	97 x 40 mm	97 x 47 mm		
Clear shade	DIN 4			
Dark shade	Variable from	Variable from DIN 9 to 13		
Switching time clear-dark	0,06 ms	0,05 ms		
Sensitivity adjustment	Yes			
Switching time dark-clear Adjustable from 0.1 to 1 second		0.1 to 1 second		
Sensors	2 independent optical sensors	3 independent high sensititvity optical sensors		
Power supply	Solar cells + 2 alcaline batteries	Solar cells + 2 lithium batteries		
Protection	Permanent protection against UV and IR			
To order				
Helmet CHAMELEON	W000276910	W000372475		
LCD cell	W000377928	W000372461		

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CITOLUXE and EUROLUX Advance

LCD autodarkening welding helmets.

2012-237

• High Tech LCD autodarkening filter An extra-wide vision: 5820 mm².

The advantages of the CITOLUXE and EUROLUX Advance helmets

Exclusive design:

- Easy filter release by simply pressing the push button.
- Adjustable head gear with 4 positions.

Comfort and protection:

- Covering shape for an optimized head protection.
- Optimization of the volume for a better breathing comfort.
- Manufactured with high resistance synthetic material (Nylon 66).
 - Lightweight and heat resistant.



Lightweight a
2
2012-234

	1 CITOLUXE Advance 4500	2 EUROLUX Advance 4500	
Optical class	1/1/1/2		
Switching time clear-dark	0.05 ms		
Switching time dark-clear	10 positions fro	om 0.1 s to 1 s	
Sensitivity adjustment	Setting per digital	key (10 positions)	
Modes Welding Grinding Cutting X mode* Infotrack system**	Yes shade 9 to 13 per digital key Yes shade 4 (per external button) Yes shade 5 to 9 per digital key Yes Yes		
Sensors	4 independent optical sensors - Magnetic in "X" mode		
Viewing area	97 x 60 mm		
Constant UV/IR protection	tection Yes		
Battery type	2 lithium CR2450 3 Volts		
Solar cell	Yes		
Temperature scale Use Storage	From -5 °C to +55 °C From -30 °C to +70 °C		
Weight	510 g (helmet + LCD filter)		
Standard LCD filter Helmet	CE EN 379 CE EN 175		
To order			
Complete helmet	W000372474	W000372465	
LCD filter	W000372462		

* X-mode: this mode allows welding in outdoor conditions or with very low arc current (lens turn when it's sense the welding current)

** Infotrack system: provides useful information (current time - total welding time - alarm - temperature)

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EN 175 for helmets

CE EN 379



Filter Advance 4500 -Infotrack shade 4/9-13 The top-of-the-range solution

for any application: 4 adjustment modes via the LCD screen with digital keys:

- Welding: variable shades 4/9-13, 4 optical sensors, regulation of the sensitivity and return to a clear shade.
- Grinding: activation of the filter in clear shade level 4.
- Cutting, low current welding: adjustable shades 5 to 9 for low intensity TIG process, microplasma, oxy-fuel gas welding...
- "X mode": adjustable shade 4 to 9-13 with magnetic sensors for outside use or obscured arc welding...
- Infotrack system: provides useful information (current time - total welding time - alarm - temperature)



- Auto-start function: it is not necessary to push the "on" button before starting to weld. Automatic starting.
- Reset button: in case of a dysfunction of the electronic system. press the "reset" button twice to re-initialize the original parameters.
- Grinding mode: a fixed shade 4 is activated, to ensure optimum protection when grinding.

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Flip-up LCD filter for grinding 2010-009

2012-034

New: grinding mode

with external button

ZEPHYR / FLIP'AIR

The ultimate welder protection

Discover a completely new solution designed to protect welders in the most effective way.

With the ZEPHY/FLIP'AIR solution, you will find in a rugged carry bag:

- The ZEPHYR of FLIP'AIR helmet,
- The ZEPHYR air flow system,
- A protected hose connection,
- A shoulder strap,
- A battery charger,
- An air flow-meter,
- One extra filter.



CE EN 175

for helmets CE EN 379

LCD cel

2



Autodarkening LCD filters with wide vision field

Advance 4500 / 4500 i

The top-of-the-range solution for any application:

- 5 adjustment modes from an LCD screen with digital keys:
- Welding: variable shades 4/9-13, 4 optical sensors, regulation of the sensitivity and return to a clear shade.
- Grinding: activation of the filter in clear shade level 4. (except on FLIP'AIR with its flip-up front filter.
- Cutting, low current welding: adjustable shades 5 to 9 for low intensity TIG process, microplasma, oxy-fuel gas welding...
- "X mode": adjustable shade 4 to 9-13 with magnetic sensors for outside use or obscured arc welding...
- Infotrack system: provides useful information (current time total welding time - alarm - temperature.



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		1 ZEPHYR Advance 4500	2 FLIP'AIR 4500 i		
Optical class		1/1/	1/2		
Switching time	e light to dark	0.05	0.05 ms		
Switching time	e dark to light	10 positions from 0.1 s to 1	s (setting per digital key)		
Delay setting		10 positions (setting	g per digital key)		
Mode	Welding Grinding Cutting X mode* Infotrack system**	Yes shade 9 to 13 per digital key Yes shade 4 (per external button) - For FLIP'AIR flip-up LCD for grinding Yes shade 5 to 9 per digital key Yes Yes			
Sensors		4 independent optical sensors - Magnetic in "X" mode			
/iewing area		97 x 60 mm			
Constant UV/I	R protection	Yes	Yes		
Battery type		2 lithium CR2	2 lithium CR2450 3 Volts		
Mix power (ba	attery/cell)	Yes	3		
Temperature scale		Use : -5 °C to +55 °C - Storage : -30 °C to +70 °C			
Weight		510 g (helmet	510 g (helmet + LCD filter)		
Standard		LCD filter: CE EN 379 -	Holmot: CE EN 175		

EN 12941 TH2

** Infotrack system: provides useful information (current time - total welding time - alarm - temperature)

To order

Package (helmet + airflow system+ LCD filter)	W000372468	W000372470
LCD filter	W000372462	W000372469

The ZEPHYR / FLIP'AIR air flow system

- Air flow system: **2 flow rates** (low 160 l/min and high 200 l/min).
- This equipment includes an indication of the chosen flow, an indication of the battery charge, and two alarms in case of flow insufficiency: a tone and a vibration. This is important for the welder who is often in a noisy environment. A specific system sends the tone through the hose to bring the sound to the welder.
- The belt, as well as the shoulder strap, are made in **flame retardant material,** a big advantage also.
- The belt includes a cushion to ensure a high comfort level.
- Disconnecting the battery is easy with only one button to push. It is a lithium battery with an 8-hour lifetime duration. A stronger one can be put in place for special cases with 14-hour duration ±5% (on request). No need to fully discharge the Li-lon battery before recharging it.

 Opening the filter is simple by turning a quarter to the left. Two symbols indicate if it is locked or open, this is also indicated inside the filter box.

Inside, 3 kinds of filters can be included.

- One pre filter against the biggest particles
- One particle filter against the dust (> 0.3 micron)
- One carbon filter against the fume and the odour.

The whole system is water proofed



Hose connection and hose cap

The connection between the flow system and the helmet is made via the hose. The connection with the air flow system is water proof. The helmet includes a quick connection allowing flexibility when the welder moves his head. The hose is protected with an outer covering (75% cotton, 25% Kevlar).



• or a mix of these two solutions.

These features ensure excellent welder comfort

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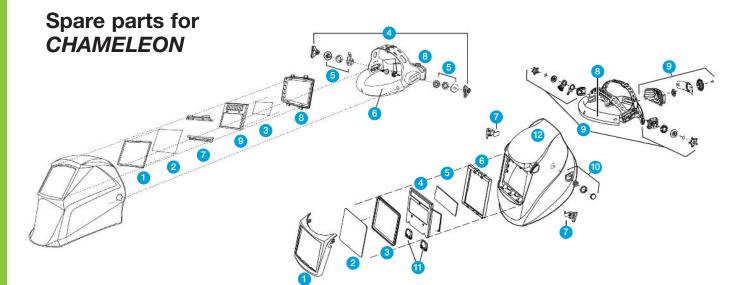
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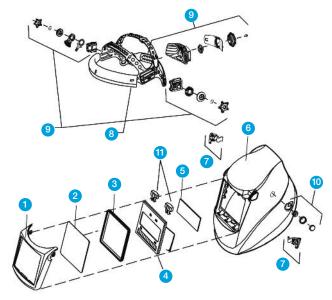


CHAMELEON 3V0	To order
1 - Gasket front cover lens	W000261985
2 - Front cover lens	W000261983
3 - Inside cover lens	W000335163
4 - Headgear	W000261986
5 - Headgear adjusting kit	W000261987
6 - Fabric sweatband	W000261999
7 - LCD filter holder hook	W000261990
8 - Comfort cushion	W000261991
9 - LCD cell	W000377928

CHAMELEON 4V+	To order
1 - Front cover lens holder	W000373136
2 - Front cover lens	W000261993
3 - Gasket front cover lens	W000261992
4 - LCD cell	W000372461
5 - Inside cover lens	W000261984
6 - Internal lens holder	W000380495
7 - Lens holder buttons (left & right)	W000276258
8 - Fabric sweatband	W000261999
9 - Headgear	W000373091
10 - External grinding button kit	W000378989
11 - Spare batteries	W000260920
12 - Helmet shell	On request

EUROLUX 4500 CITOLUXE 4500	To order
1 - Front cover lens holder	W000272828
2 - Front cover lens	W000261993
3 - Gasket front cover lens	W000261992
4 - LCD cell	W000372462
5 - Inside cover lens	W000261994
6 - Helmet shell	On request
7 - Lens holder buttons (left & right)	W000276258
8 - Fabric sweatband	W000261999
9 - Headgear	W000373091
10 - External grinding button kit	W000378989
11 - Spare batteries	W000260920

Spare parts for EUROLUX / CITOLUXE



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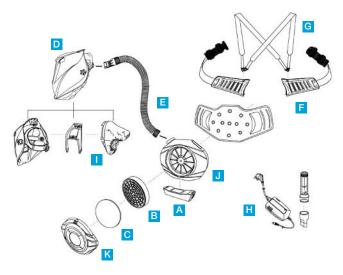
18

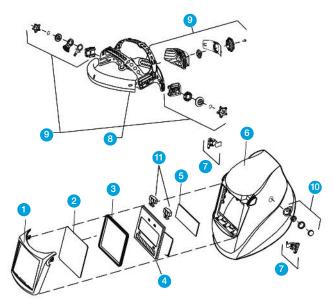
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Spare parts for ZEPHYR / FLIP'AIR



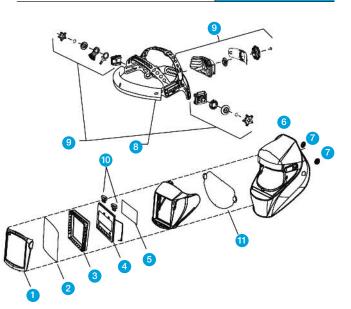


ZEPHYR 4500	To order
1 - Front cover lens holder	W000272828
2 - Front cover lens	W000261993
3 - Gasket front cover lens	W000261992
4 - LCD cell	W000372462
5 - Inside cover lens	W000261994
6 - Helmet shell	On request
7 - Lens holder buttons (left & right)	W000276258
8 - Fabric sweatband	W000261999
9 - Headgear	W000373091
10 - External grinding button kit	W000378989
11 - Spare batteries	W000260920

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ZEPHYR air flow system	To order
A 8 hours battery (± 5%)	W000271210
A 14 hours battery (± 5%)	W000274379
B Particle filter P3	W000271208
C Pre filter	W000271207
Carbon filter (odours filter)	W000271209
ZEPHYR shell without lens	On request
E Hose 110 cm	W000271205
Hose protective cover	W000271206
F Comfort belt (size 70 - 113 cm)	W000271203
G Shoulder strap	W000271204
H Battery charger	W000271211
Green protection ZEPHYR	W000272540
Green protection FLIP'AIR	W000382676
J Motor	W000377929
K Filter cover	W000378987



To order
W000378990
W000375551
W000382321
W000372469
W000261994
W000380263
W000382922
W000261999
W000373091
W000260920
W000374799

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PROFESSIONAL WELDING PRODUCTS BY

 ∞

Goggles



Choice criteria

Goggles are used mainly to protect the eyes against the light produced by flame welding or cutting or against mechanical particles (grinding for example).

Our products are classified by:

- Welding range
- Protection range
- Grinding masks

Marking of the frame:

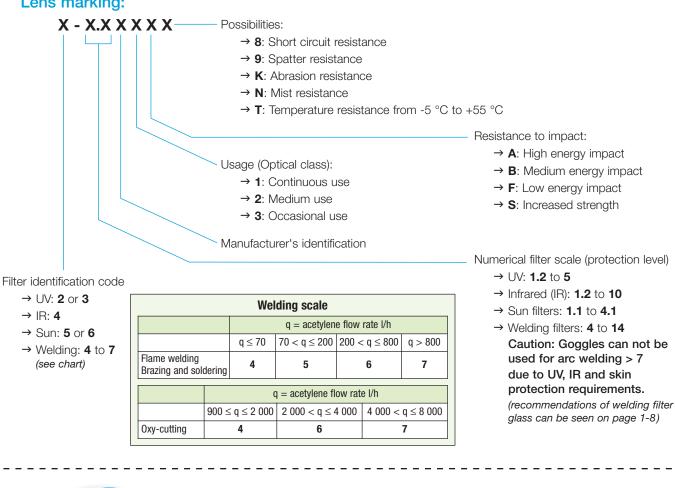
- EN 166 standard
- Resistance to impact: \rightarrow **A**: High energy impact
 - → B: Medium energy impact
 - \rightarrow **F**: Low energy impact
 - \rightarrow S: Increased strength

Lens marking:

Verify that the product is conform with the EN standards (CE marking confirms conformity) Main EN Standards are:

- EN 166 for basic conditions

- EN 169 for welding filters
- EN 170 for UV filters
- EN 171 for IR filters
- EN 172 for sunglasses filters
- EN 175 for personal eye-protection during welding



Shade Skin pack - 10 pieces Box - 100 pieces Round 5 W000010925 W000335085 replacement lenses for the W000335086 W000010937 6 **PILOT** range 7 W000335087 W000010949 Round lenses 8 W000335088 in mineral glass Ø 50 mm. W000010979 Clear

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Goggles / Spectacles



<u>VE</u>

PROTECTION EQUIPMENT

PERSONNAL

Welding range

PILOT FLIP UP

- Flip up lenses anti-scratch treated
- Elastic headband
- Indirect ventilation value
- Weight: 137 g

PILOT 2 METAL

- Double cup metal frame with nose bridge adjustment
- Adjustable elastic headband
- Weight: 80 g

PILOT 1

- One piece soft black PVC frame allowing quick lens replacement
- Elastic headband
- Aerated side covers honeycombed casing for good ventilation and to prevent from lens dimming
- Weight: 60 g

PILOT 2 PLASTIC

- Double cup black plastic frame with nose bridge adjustment
- Side ventilation value
- Adjustable elastic headband
- Weight: 65 g

PILOT EVEREST

- Standard black spectacles with foldable polyamide side shields and frame
- Central screw for quick lens replacement
- Weight: 70 g

PILOT 1 PLASTIC

- One piece soft black PVC frame allowing quick lens replacement
- Elastic headband
- Aerated side covers honeycombed casing for good ventilation and to prevent from lens dimming
- Weight: 60 g

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EN 166 - EN 169 - EN 175













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PROFESSIONAL WELDING PRODUCTS BY



AIR LIQUIDE

Goggles / Spectacles

NEW

NEW



Welding range

CLASSIC OVER WELDING

- Over spectacles
- Polycarbonate
- Lateral protection
- Protection against high-speed particles low energy
- Protection against high-speed particles at extreme temperatures
- Resistance to surface damage by fine particles
- Weight: 37 g

CLASSIC WELDING

- Anti-scratch surface
- Nylon frame and side shields
- Changeable polycarbonate lenses
- Central screw for quick lens replacement
- Weight: 35 g

FASHION WELDING

- Spectacles
- Polycarbonate
- Protection against high-speed particles low energy
- Protection against high-speed particles at extreme temperatures
- Resistance to fogging of oculars
- Resistance to surface damage by fine particles
- Weight: 31 g

Protection range

CLASSIC OVER VISIT

- Panoramic spectacles also usable as over spectacles
- Polycarbonate lens and frame
- Protection against high-speed particles low energy
- Protection against high-speed particles at extreme temperatures
- Resistance to surface damage by fine particles
- Weight: 37 g

CLASSIC VISIT CLEAR

- Anti-scratch surface
- Nylon frame and side shields
- Changeable polycarbonate lenses
- Central screw for quick lens replacement
- Weight: 35 g















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Goggles / Spectacles



Protection range

FASHION VISIT

- Impact resistant
- Polycarbonate single lens
- Sports and ergonomic design
- Weight: 22 g

EN 166



Grinding masks



FIRST

- Anti-scratch polycarbonate lens
- Direct ventilation
- Adjustable elastic headband
- Weight: 75 g



OVER

- 180° field of vision
- Durable and adjustable elastic headband
- Indirect ventilation
- Anti-mist and anti-scratch treated and wearable as over spectacles or with a respiratory mask
- Weight: 85 g

STAR

- Anti-scratch and anti-mist treated with adjustable elastic headband
- Soft foam for better adherence to the user's face
- Weight: 55 g





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Leather clothes



Reminder:

EEC directive 89/686 is mandatory with the compliance to **EN 340** and **EN 11611** standards for welder's protective equipment.

For the WELDLINE garments:

- The best quality leather only is selected by our experts.
- No dangerous substances for skin.

Gaiters

Gaiters are used to protect the bottom of the trousers and shoes from sparks and heat generated during welding or grinding operations. Cat N°: W000010590 Leather belt Cat N°: W000010591 Velcro belt

Technical description

- Natural split leather tanned with chromium salts (mineral substances).
- The gaiters are manufactured in four pieces that are stitched together, complete with adjustable leather belt or velcro strap and under-strap to secure to the shoes.

Protective limits

- Due to the presence of the securing straps the gaiters should not be warn when using machinery with moving or rotating parts, without additional protection.
- The gaiters are not heat resistant and should not be exposed either to convective or radiated heat sources.
- The gaiters are not meant for any other type of protection than the use described above. The manufacturer will not be held responsible for any damages that could occur from such practices.

Maintenance and storage

- Recommended storage: a safe dry well ventilated area that is not exposed to direct light.
- To clean use soap and water with a maximum temperature of 60 °C.
- Do not use any type of bleach, dry clean, (perchloride enthymeme) tumble driers or sharp and abrasive cleaning products.
- Maximum 30 wash cycles.

Standards



- Gaiters are designed and manufactured to meet the basic health and safety requirements prescribed by EEC directive 89/686 of Decree Law 475/92 and to comply with the requirements prescribed by EN 340 Standards, related to general requirements, and EN 11611 standards related to protective equipment for welders and similar activities.
- When worn correctly the gaiters do not impede normal welding activities, quality and performance are guaranteed and maintained according to the instructions supplied. Protection category II (in accordance with Decree Law 475/92).

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PROTECTION EQUIPMENT

PERSONNAL

Short and long sleeves

The short and long sleeves in split

leather are intended to protect arms from fine welding spatters.

Technical description

- Entirely in split leather tanned with chromium salts (mineral substances)
- Fixed with leather straps
- Tightening elastic to the wrists
- Single size.

Protective limits

- Due to the presence of the securing straps the sleeves should not be worn when using machinery with moving or rotating parts, without additional protection.
- The sleeves are not heat resistant and should not be exposed either to convective or radiated heat sources.
- The sleeves are not meant for any other type of protection than the use described above. The manufacturer will not be held responsible for any damage that could occur from such practices.

Maintenance and storage

- Recommended storage: a safe dry well ventilated area that is not exposed to direct light
- \bullet To clean use soap and water to a maximum temperature of 60 $^{\circ}\mathrm{C}$
- Do not use any type of bleach, dry clean, (perchloride enthymeme) tumble driers or sharp and abrasive cleaning products
- Maximum 30 wash cycles.

Cat N°: W000010593

Length: +/- 670 mm

Standards

- These welder sleeves constitute an EAR category 2
- These sleeves were designed to comply with the following European standards:
 - **EN 340**: Protective clothing General requirements
 - **EN 11611**: Protective clothing used during welding and related processes
 - > Mechanical tests:
 - thickness: conform
 - dimensional variation: conform
 - breaking strength: conform
 - tensile strength: conform
 - > Chemical tests: - fat content rate: conform
 - > Thermal tests:
 - inflammability: conform
 - withdrawal to heat
 - behavioural contact with small spatter: conform
- These sleeves have been examined by a competent CE organisation.
- The CE marking confirms they meet the essential requirements of the European Directive 89/686 related to individual protection equipment.

The illustrations, descriptions and characteristics are given for information only and do not engage the responsibility of the constructor.



Grain leather apron

This apron is designed to protect clothes from welding spatters and grinding particles.



1100 x 800 mm

- Length: 1 100 mm
- Width: 800 mm

Cat N°: W000010588

Leather straps

Technical description

- Protective welding apron in premium grade grain leather tanned with chromium salts (mineral substances).
- Leather strap fixed through bound eyelets to the waist and flap.
- Single size.

Protective limits

- Due to the presence of the securing straps, the apron should not be warn when using machinery with moving or rotating parts, without additional protection.
- The apron is not heat resistant and should not be exposed either to convective or radiated heat sources.
- The apron is not meant for any other type of protection than the use described above. The manufacturer will not be held responsible for any damage that could occur from such practices.

Maintenance and storage

- Recommended storage: a safe dry well ventilated area that is not exposed to direct light.
- To clean use soap and water to a maximum temperature of 60 °C.
- Do not use any type of bleach, dry clean, (perchloride enthymeme) tumble driers or sharp and abrasive cleaning products.
- Maximum 30 wash cycles.

Standards

- This welding apron is an EAR category 2
- This apron was designed to comply with the following European standards:
 - EN 340: Protective clothing General requirements
 - **EN 11611**: Protective clothing used during welding and related processes

0951-30

- > Mechanical tests:
 - thickness: conform
 - dimensional variation: conform
 - breaking strength: conform
- tensile strength: conform
- > Chemical tests:
- fat content rate: conform
- > Thermal tests:
 - inflammability: conform
 - withdrawal to heat
 - behavioural contact with small spatter: conform
- These aprons have been examined by a competent CE organisation.
- The CE marking confirms they meet the essential requirements of the European Directive 89/686 related to individual protection equipment.

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Split leather apron

This apron is designed to protect clothes from welding spatters and grinding particles.

900 x 600 mm

Length: 900 mm
Width: 600 mm

Cat N°: W000010586

Leather straps, closing by clips

Cat N°: W000010585

Cotton straps

Cat N°: W000010589

Cotton straps vegetable tanning: Without chromium salts

1100 x 800 mm

Length: 1 100 mm
Width: 800 mm

• Width: 800 mm

Cat N°: W000010587

Leather straps, closing by clips

Technical description

- Protective welding apron in premium grade split leather tanned with chromium salts (mineral substances), except W000010589
- Leather or cotton strap with quick release clips to the waist and flap

Protective limits

- Due to the presence of the securing straps the apron should not be warn when using machinery with moving or rotating parts, without additional protection.
- The apron is not heat resistant and should not be exposed either to convective or radiated heat sources
- The apron is not meant for any other type of protection than the use described above. The manufacturer will not be held responsible for any damage that could occur from such practices

Maintenance and storage

- Recommended storage: a safe dry well ventilated area that is not exposed to direct light
- \bullet To clean use soap and water to a maximum temperature of 60 $^{\circ}\mathrm{C}$
- Do not use any type of bleach, dry clean, (perchloride enthymeme) tumble driers or sharp and abrasive cleaning products
- Maximum 30 wash cycles

Standards

- This welding apron is an EAR category 2
- This apron was designed to comply with the following European standards:
 - EN 340: Protective clothing General requirements

EN 11611: Protective clothing used during welding and related processes

- > Mechanical tests:
 - thickness: conform
 - dimensional variation: conform
 - breaking strength: conform
 - tensile strength: conform
- > Chemical tests: - fat content rate: conform
- > Thermal tests:
 - inflammability: conform
 - withdrawal to heat
 - behavioural contact with small spatter: conform
- These aprons have been examined by a competent CE organisation.
- The CE marking confirms they meet the essential requirements of the European Directive 89/686 related to individual protection equipment.

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PROFESSIONAL WELDING PRODUCTS BY



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050

2002-

EN 340

EN 1161

NEL



Split leather welding jacket



These jackets are designed to protect the upper body of the user from fine welding spatters and grinding particles.



Cat N°: (Size XL): W000010594 Cat N°: (Size XXL): W000010595

Technical description

- The complete jackets are manufactured in premium grade split leather tanned with chromium salts (mineral substances)
- The jacket fastens in the front with an overlap of leather and Velcro for additional protection against spatters, the inner neck is made of double cotton for comfort
- Tightening elastic to the wrists
- Finished in red trim
- Length: +/- 780 mm
- Available sizes: XL and XXL (other sizes on demand)

Protective limits

- The jackets are not heat resistant and should not be exposed either to convective or radiated heat sources.
- The jackets are not meant for any other type of protection than that usage describe above. The manufacturer will not be held responsible for any damage that could occur from such practices

Maintenance and storage

- Recommended storage: a safe dry well ventilated area that is not exposed to direct light
- \bullet To clean use soap and water with a maximum temperature of 60 $^{\circ}\mathrm{C}$
- Do not use any type of bleach, dry clean, (perchloride enthymeme) tumble driers or sharp and abrasive cleaning products
- Maximum 30 wash cycles

Standards

- These welding jackets are an EAR category 2
- These jackets are designed to comply with the following European standards:
 - **EN 340**: Protective clothing General requirements

EN 11611: Protective clothing used during welding and related processes

- > Mechanical tests:
 - thickness: conform
 - dimensional variation: conform
 - breaking strength: conform
 - tensile strength: conform
- > Chemical tests:
 - fat content rate: conform
- > Thermal tests:
 - inflammability: conform
 - withdrawal to heat
 - behavioural contact with small spatter: conform
- These jackets have been examined by a competent CE organisation.
- The CE marking confirms they meet the essential requirements of the European Directive 89/686 related to individual protection equipment.



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Welding grain leather jacket Half-back flame-retardant cotton

These jackets are designed to protect the upper body of the user from fine welding spatters and grinding particles. The design gives a light, breathable, flexible and comfortable jacket.



WEL

Cat N°: (Size XL): W000010596 Cat N°: (Size XXL): W000010598

Technical description

- The complete jacket is manufactured in premium grade grain leather tanned with chromium salts (mineral substances)
- Half of the back is made from flame retardant cotton ensuring a light, flexible Jacket
- The jacket fastens in the front with an overlap of leather and Velcro for additional protection against spatters, the inner neck is made of double cotton for comfort
- Tightening elastic to the wrists
- Finished in red trim
- Length: +/- 780 mm
- Available sizes: XL and XXL (other sizes on demand)

Protective limits

- The jackets are not heat resistant and should not be exposed either to convective or radiated heat sources.
- The jackets are not meant for any other type of protection than the use described above. The manufacturer will not be held responsible for any damage that could occur from such practices

Maintenance and storage

- Recommended storage: a safe dry well ventilated area that is not exposed to direct light
- \bullet To clean use soap and water with a maximum temperature of 60 $^{\circ}\mathrm{C}$
- Do not use any type of bleach, dry clean, (perchloride enthymeme) tumble driers or sharp and abrasive cleaning products
- Maximum 30 wash cycles

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- These welding jackets are an EAR category 2
- These jackets are designed to comply with the following European standards:

EN 340: Protective clothing - General requirements
 EN 11611: Protective clothing used during welding and related processes

- > Mechanical tests:
 - thickness: conform
 - dimensional variation: conform
 - breaking strength: conform
 - tensile strength: conform
- > Chemical tests:
 - fat content rate: conform
- > Thermal tests:
 - inflammability: conform
 - withdrawal to heat
 - behavioural contact with small spatter: conform
- These Jackets have been examined by a competent CE organisation.
- The CE marking confirms they meet the essential requirements of the European Directive 89/686 related to individual protection equipment.





2004-513

Gloves



Choice of criteria

Split leather or grain leather ?

Split leather = heat resistant, comfort & protection Which application ? MMA, MIG/MAG

Which gloves ?





STOPCALOR



STOPCALOR +



Grain leather =



European standard for gloves and welding gloves

EN 420:

30

UNIVERSEL

General requirements for gloves: safety, comfort, dexterity

- All the gloves meet European standards and carry the CE marking that indicates conformity to these standards.
- The pictograms indicate that an approved laboratory has tested the gloves, ensuring they are conform to CE.
- The welding gloves have to be conform to two specific standards added to the EN 420: the EN 388 and the EN 407.

For each criteria, the higher the figure is the more efficient the glove is deemed. "X" indicates that a particular glove has not been tested within the criteria.

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EN 388: Mechanical hazards

STOPCALOR ALU



B: Blade cut (0-5) C: Tear(0-4) D: Puncture (0-4)

A: Abrasion (0-4)

EN 407:

Heat resistance



A: Flammability (0-4) B: Contact heat (0-4) C: Convective heat (0-4) D: Radiant heat (0-4) E: Small splashes of molten metal (0-4) F: Large splashes of molten metal (0-4)

EN 12477:

Welding gloves

- A: Abrasion (0-4) B: Blade cut (0-5)



C: Tear (0-4) D: Puncture (0-4)



- A: Flammability (0-4) B: Contact heat (0-4)
- C: Convective heat (0-4)
- E: Vertical electric
 - resistance test (0-4)

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LONG BASIC

The LONG BASIC welding gloves are designed to protect the hands during normal welding applications in MMA/MIG/MAG processes and infrequent handling of component parts not exceeding 100 °C.

Technical description

- American cut with webbed thumb and return on index
- Palm and thumb in natural split leather to protect from the heat
- Reinforcement in split leather of the seams on top of the thumb and the base of the finger backs
- Cuff in natural split leather, length 150 mm (+/- 5 mm) and a thickness of 1.3 mm
- Overall length of the glove: approximately 350 mm (size 10) +/- 5 mm
- Seams in para-aramide wire (flame retardant and projectile resistant)
- Finished in red edge trim
- Available size: 10

Standards and levels of protection

- These gloves have been examined by a competent CE organisation.
- Safety comfort and dexterity level = 5.



LONG BASIC +

The **LONG BASIC** + welding gloves are designed to protect the hands during normal welding applications in MMA/MIG/MAG processes and infrequent handling of component parts not exceeding 100 °C.

Technical description

- American cut with webbed thumb and return on index.
- Palm and thumb in natural split leather
- Reinforcement of the blue split leather glove for added protection of the palm thumb and index finger
- Reinforcement in split leather of the seams on top of the thumb and on the base of the finger backs
- Cuff in natural split leather, length 150 mm (+/- 5 mm) and a thickness of 1.3 mm
- Overall length of the glove: approximately 350 mm (size 10) +/- 5 mm
- Seams in para-aramide wire (flame retardant and projectile resistant)
- Available size: 10

Standards and levels of protection

- These gloves have been examined by a competent CE organisation.
- Safety comfort and dexterity level = 5.



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Limits of protection

WELDLINE

- Do not use to handle objects over 100 °C.
- Do not use to handle any chemicals.



Limits of protection

- Do not use to handle objects over 100 °C.
- Do not use to handle any chemicals.

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PROFESSIONAL WELDING PRODUCTS BY



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2014-605



NEL



UNIVERSEL

The UNIVERSEL welding gloves are designed to protect the hands during normal welding applications in MMA/MIG/MAG/TIG processes and have a grain leather palm for extra sensitivity.

Technical description

- American cut with webbed thumb and return on index
- Palm index finger and inner of the thumb in natural grain leather for extra sensitivity
- Reinforcement in grain leather of the seams on top of the thumb and on the base of the finger backs
- \bullet Glove rear and cuff are made of natural split leather, length 150 mm (+/- 5 mm) and a thickness of 1.3 mm
- Artery protection in grain leather
- Overall length of the glove: approximately 350 mm (size 10) +/- 5 mm
- Seams in para-aramide wire (flame retardant and projectile resistant)
- Finished in red edge trim
- Available size: 10

Standards and levels of protection

- These gloves have been examined by a competent CE organisation.
- Safety comfort and dexterity level = 5.





Limits of protection

- Do not use to handle objects over 50 °C.
- Do not use to handle any chemicals.

STOPCALOR

The STOPCALOR welding gloves are designed for a high level of protection of the hands during normal welding applications in MMA/MIG/MAG processes and handling of component parts not exceeding 100 °C.

Technical description

- American cut with webbed thumb
- In split leather red colour, the glove is flame retardant treated and 1.3 mm thick (+/- 0.2 mm)
- Seams in para-aramide wire (flame retardant and projectile resistant) and reinforced by split leather
- Back being one complete piece
- Cuff of 145 mm (+/- 5 mm) with doubled fabric
- Overall length of the glove: approximately 350 mm (size 10) (+/- 5 mm)
- Available size: 10

Standards and levels of protection

- These gloves have been examined by a competent CE organisation.
- Safety comfort and dexterity level = 5.



Limits of protection

- Do not use to handle objects over 100 °C.
- Do not use to handle any chemicals.

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PROFESSIONAL WELDING PRODUCTS BY



604

2014-1

NEW

Cat N°: W000380511

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2014-614

NEW

Cat N°: W000382261

STOPCALOR +

The STOPCALOR + welding gloves are designed for a high level of protection of the hands during normal welding applications in MMA/MIG/MAG processes and handling of component parts not exceeding 100 °C. The natural grain leather palm gives extra sensitivity.

Technical description

- American cut with webbed thumb
- Glove back and cuff in blue colour split leather 1.2 mm thick (+/- 0.2 mm) to abration resistance
- Palm in natural grain leather for extra flexibility
- · Seams in cotton wire
- Back being one complete piece
- Cuff of 145 mm (+/- 5 mm) with doubled fabric
- Overall length of the glove: approximately 350 mm (size 10) +/- 5 mm
- Available size: 10

Standards and levels of protection

- These gloves have been examined by a competent CE organisation.
- Safety comfort and dexterity level = 3.



Limits of protection

- Do not use to handle objects over 100 °C.
- Do not use to handle any chemicals.

STOPCALOR ALU

The STOPCALOR ALU welding gloves are designed for a high level of protection of the hands during heavy welding applications in MIG/MAG processes and handling of component parts not exceeding 100 °C.

Technical description

- American cut with webbed thumb
- Palm in red split leather flame retardant treated and double stitched in cotton tanned with chorium salts (mineral substances)
- Inside cuff in natural split leather and double stitched in cotton
- Outside cuff and back of hand in one single piece of Kevlar fabric with one scraped face and one aluminised face. Doubled stitched with cotton reinforced with aluminised fabric
- Seams in para-aramide wire (flame retardant and projectile resistant) and reinforced by split leather
- Cuff of 145 mm (+/- 5 mm) with doubled fabric
- Overall length of the glove: approximately 355 mm (size 10) (+/- 5 mm)
- Finished in red edge trim
- Available size: 10

Standards and levels of protection

- These gloves have been examined by a competent CE organisation.
- Safety comfort and dexterity level = 3.



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Cat N°: W000010420

Limits of protection

- Do not use to handle objects over 100 °C.
- Do not use to handle any chemicals.

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PROFESSIONAL WELDING PRODUCTS BY



TIG - The favorite gloves of TIG welders

The TIG welding gloves are designed to give a high level of dexterity and flexibility for normal welding applications in TIG/Flame processes.

Technical description

- Lamb skin glove
- American cut with webbed thumb and return on index finger
- Complete hand in natural grain leather to give more control and more movement while working
- Cuff in natural cow split leather Cuff 145 mm (+/- 5 mm)
- Seams in para-aramide wire (flame retardant and
- projectile resistant) and reinforced by split leather • Overall length of the glove: approximately
- 360 mm (size 10) (+/- 5 mm) Very confortable and light weight !
- Excellent movement to get precise welds made with a TIG torch
- Available size: 9 and 10

Standards and levels of protection

- These gloves have been examined by a competent CE organisation.
- Safety comfort and dexterity level = 5

Protective gloves

DOCKER

The DOCKER protective gloves are designed in a high quality with reinforced fingers for an increased life span.

Technical description

- DOCKER protective handling gloves
- Palm in grain leather tanned with chorium salts
- (mineral substances)
- Cotton back
- Fabric cuff
- Elastic tightening glove back

Standards and levels of protection

• These gloves have been examined by

a competent CE organisation. • Safety comfort and dexterity level = 5.





Limits of protection

• For use in a dry environment against mechanical risks.

Accessories: Thermal screen MIG/MAG and MMA welding processes. Thermal protection added to a glove.

- Dimensions 200 x 150 mm.
- Fitted with two elastic straps at palm and cuff level.
- Split leather lined with Kevlar. Heat and flame resistant.
- One aluminized side reflects 95% of radiant heat.
- Double Kevlar thread seams.
- Delivered by 2 pieces.

Tel.: + 33 134 213 333 - Web: www.weldline-alw.com

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198-

700-6003

WEL





NEW

Cat N°: W000380519 (Size 9)

Cat N°: W000380520 (Size 10)



Limits of protection

- Do not use to handle objects over 100 °C.
- Do not use to handle any chemicals.





34



Protective clothes



WELDCOT 2

New protective clothes: comfort, lightness and high level of safety.

Last technology for heat protection combining low weight, high functionality and design.

New fiber: Modacrylic

Flame retardant clothes

Composition: 60% Modacrylic, 38% coton, 2% antistatic fiber. Fabric Weight: 250 g/m^2

Conformity to standards:

- EN ISO 11612: 2008 protective clothing for workers exposed to heat and flames (not including welders and firefighters) with performances (A1-B1-C1).
- IEC 61482-2: 2009 Class 1 Protective clothing against the thermal hazards of an electric arc.
- \bullet EN ISO 11611: 2007 Class 1 A1 protective clothing for use in welding and allied processes
- EN 1149-5: 2008 protective clothing Electrostatic properties.

 $\begin{array}{c|c} \textbf{C} \textbf{E} & \underset{11612}{\texttt{EN}} & \underset{11612}{\texttt{EN}} & \underset{11612}{\texttt{EC}} & \underset{11611:2007}{\texttt{EN}} & \underset{11611:2007}{\texttt{EN}} & \underset{1149-5}{\texttt{EN}} & \underset{1149$



Size	1 TROUSERS	2 JACKET	3 OVERALL	4 COAT	5 HOOD
S	W000372262	W000372268	W000372248	W000372242	W000372256
М	W000372261	W000372267	W000372249	W000372243	W000372255
L	W000372260	W000372266	W000372253	W000372244	W000372254
XL	W000372259	W000372265	W000372252	W000372245	-
XXL	W000372258	W000372264	W000372251	W000372246	-
XXXL	W000372257	W000372263	W000372250	W000372247	-

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Safety shoes for welding

Size

36

37

38

39

40

Cat N

W000376225

W000376226*

W000376229[,]

W000376230³

W000376231

012-635



- Our safety shoes always include a toe protection
- (in steel or in other material with a resitance > 200J). The European directive 89/686/EEC recommends the wearing of
- safety shoes for workers.
- The standard EN ISO 20345 includes several levels.

Safety level	Toe protection	Shock absorber	Antistatic plate	Anti- puncture plate	Water resistant
SPB	•			•	
S1	•	•	•		
S2	•	•	•		•
S1P	•	•	•	•	
S3	٠	٠	•	•	•

- SUPER FORJA
- The best performance for a reasonable price. fulfilling the most stringent safety footwear technical regulations and quality controls.
- Extra thick, antispark, waterproof leather.
- Resistant, agile, comfortable and safe footwear.
- Ergonomic last and Shock Absorber outsole.
- Anti-static sole.
- Extra padded collar for additional comfort.



SUPER FORJA METAL FREE

• The best performance at reasonable price, always Size Cat N complying with all technical requirements and the 36 W000376200³ toughest quality control. 37 W000376201 Extra thick, anti-sparkling and waterproof leather. 38 W000376202³ • Tough, agile, comfortable and secure. · Ergonomic last and shock absorber sole. 39 W000376203* Ant-static insole. 40 W000376204 • Very lightweight, resistant and durable. 41 W000376206 Padded anti-friction collar. 42 W000376215 Extra breathable and 43 W000376216 resistant lining 44 W000376217 45 W000376218 46 W000376219* 47 W000376220 48 W000376221* on demand 2012-Toe protection | Antipuncture plate Safety level Outsole Upper Plastic Non metallic PU/PU Full-grain leather S3

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Air Liquide Welding reserves itself the right to embody modifications without prior notice The illustrations, descriptions and characteristics are given for information only and do not engage the responsibility of the constructor. • Air Liquide Welding proposes products with toe protection only (>200 J) that can be in steel, aluminium or in fiberplast and with an antipuncture plate in steel or in fibre textile.

The criteria of choice are:

- 1- Levels of protection as indicated above
- 2- High or low shoes
- 3- Upper in :
 - full-grain leather (water resistant) split leather
 - fabric (non water resistant)
 - pigmented split leather
- 4- Outsole
 - PU+PU (dual density) polyurethane lightweight)

• PU+TPU (lightness and

NEL

- flexibility + more strength of the thermoplastic polyurethane)
- PU + nitrile rubber for extreme
- temperatures (up to 300 °C)
 - 5- Antipuncture midsole: in steel
 - non metallic for more comfort 6- Toe protection :
 - steel
 - aluminium (30% lighter)fiberplast (extra lightweight)

Size

40

41

ULYSSE TOTALE

- · The over-sized exterior flap provides extra protection against small splashes of molten metal.
- 36 · Top-quality full-grain leather, extra thick, 37 waterproof. Anti-torsion outsole, resistant to oils and 38 hydrocarbons 39
- Extraordinary strength and durability.
- · Especially wide last, does not restrict foot.
- · Extra padding for additional comfort.

Extra resistant and long-lasting. Anti-static sole Very breathable lining, resistant to wear

and tear Anti-heat sole

42 W000376259 43 W000376260 44 W000376261 W000376262 45 46 W000376263* 47 W000376264* 48 W000376265

Cat N[°]

W000376253*

W000376254*

W000376255*

W000376256

W000376257

W000376258

on demand

Safety level Toe protection Antipuncture plate Outsole Upper PU/Nitrile rubber Full-grain leather S3 Plastic Non metallic

FUSION TOTALE

• The over-sized exterior flap provides extra Size Cat N protection against small splashes of molten metal. 36 W000376240^{*} Top-quality full-grain leather, extra thick, waterproof. 37 W000376241 · Anti-torsion outsole, resistant to oils and 38 W000376242* hydrocarbons. · Extraordinary strength and durability. 39 W000376243 · Especially wide last, does not W000376244 40 restrict foot. W000376245 41 Extra padding for additional 42 W000376246 comfort. 43 W000376247 Extra resistant and long-lasting. Anti-static sole. 44 W000376248 Very breathable lining, W000376249 45 resistant to wear and 46 W000376250* tear. 47 W000376251 Anti-heat W000376252* sole. 48 2012-639

on demand

Safety level	Toe protection	Antipuncture plate	Outsole	Upper
S3	Plastic	Non metallic	PU/Nitrile rubber	Full-grain leather

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PROTECTION 2-Collective protection equipment



Introduction
• Frames
Protection strips
• Curtains
• Accessories (for curtains and strips) 47 to 50
• Curtains and heat resistant fabrics 51 to 53
• Sound insulating walls 54 to 55
• Sound insulating elements 56 to 57
• Sound insulating booths 58 to 59
Partition steel panels 60
Welding tents61

PROTECTLITE



Protection strips, curtains, heat resistant fabrics, portable screens, accessories for curtains, strips and sound insulation

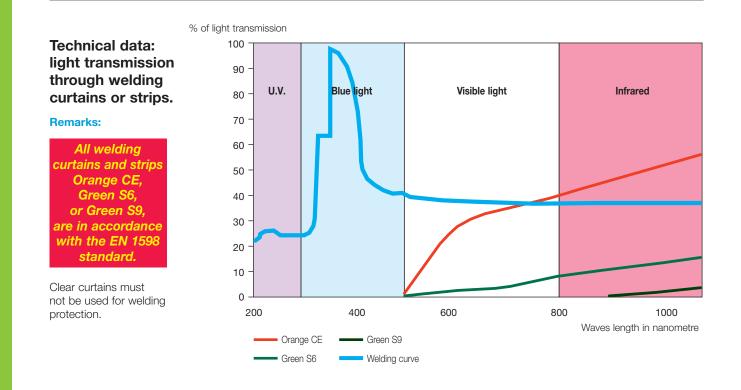
- Air Liquide Welding has an International competence in welding and related equipment.
 We offer a global and professional solution to get an efficient and safe working environment.
- PROTECTLITE is a wide range of products covering every need of your environment:
 - Welding strips, grinding strips or protection strips against dust or cold,
 - Curtains and fixed or movable screens, joining screens for welding and grinding,
 - A professional range of heat resistant fabrics,
 - All the useful spares to create your specific booths,
 - Standard elements and separation walls with sound insulating function "PROPHONIC" range.

Air Liquide Welding strives to supply its customers with safe products that comply with all applicable European standards.









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Frames - Simple

PREMIUM (Curtain)

The PREMIUM frame is a robust and portable screen. The curtain is tight and stable when in position.

- Width 1 750 mm, height 2 000 mm.
- Galvanized pipes frame (diam. 25 x 1 mm).
- UV protection in accordance with EN 1598 standard.
 Screen 1 700 mm x 1 700 mm.

Description	Complete screen	Curtains only			
Orange CE	W000371474	W000370400			
Green S6	W000371473	W000371216			
Green S9	W000371475	W000370401			
Frame only	W000370399				

PROTECTLITE (Curtain or Strips)

Stable, the PROTECTLITE screen will assure an efficient and modular barrier against welding arcs, whether you are working in a workshop or not.

Curtain

- Rolling frame.
- Weight : 25 kg.
- Metal tube framework. Curtains delivered with 7 eyelets, 7 suspension metal rings on the width, and snap fasteners on the height. 4 sides-hemmed.

	Complet (frame + 2	te screen 2 curtains)	Spare curtains		
Designation	Width	Height	Width	Height	
	2 000 mm	2 100 mm	1 400 mm	1 600 mm	
Orange CE	W0000	W000010521		2 x W000010355	
T6 Green	W0000	10522	2 x W00	0010351	
T9 Green	W0000	010523	2 x W000010359		

On wheels frame only without curtain: reference W000010224

Strips

- Strips fixation by hooks (overlap covering 50 mm).
- Set of 13 suspension collars: reference W000010483

Designation	(frame +1 se + 1 se	te screen et of 4 strips t of 13 on collars)	Set of 4 spare strips 570 x 1 mm	
	Width	Height	Width	Height
	2 000 mm	2 100 mm	2 000 mm	1 600 mm
Orange CE	W0000	010471	W000010261	
T6 Green	W0000	010519	W000010484	
T9 Green	en W000010520		W000010487	

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1 free1 locking

Frames



Frames - Simple

UNIVERSAL (Curtain or Strips)

The UNIVERSAL screen is a very stable screen, offered with castors. It is width 2 100 mm and equipped with 300 mm x 2 mm strips, an overlap of 66 % and a height of 1 800 mm.

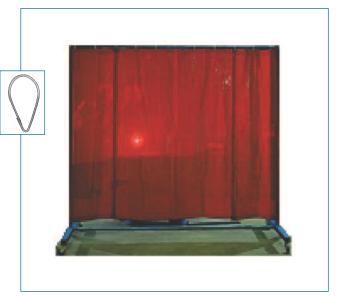
- Width 2100 mm, height 2100 mm with castors,
- Painted steel frame,
- Equipped with 10 strips height 1 800 mm in accordance with EN 1598 standard.

Curtain

Description	Complete screen	Curtains only
Orange CE	W000010524	2 X W000010356
Green S6	W000010525	2 X W000010352
Green S9	W000010526	2 X W000010360
Frame only	W0000	010269

Strips

Description	Complete screen (frame + 11 hooks + 3 sets of 4 strips)	Set of 4 strips	
Orange CE	W000010490	3 X W000010333	
Green S9	W000010492	3 X W000010335	
Frame only	W000010269		
Set of 11 hooks	W000010459		







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Frames



HORUS (Strips)

The HORUS screen is a special screen with four 570 mm x 1 mm strips across the frame. Its frame has a special design (one side with castors), which is easy to use and gives a very good stability when in position.

The HORUS screen is easy to walk through, it is also an easy solution to create a welding booth.

- Width 1 860 mm, height 1 930 mm.
- Painted steel frame.
- Equipped with 4 strips of 1 800 mm height in accordance with EN 1598 standard.

Description	Frame only	Set of 4 strips
Orange CE		W000010262
Green S6	W000260715	W000010485
Green S9		W000010488



NEL

OPTILAM (Strips)

The OPTILAM screen is a special screen with 300 mm x 2 mm strips across the frame. Its frame has a special design to enable easy portability whilst giving a very good stability when in position. The design of the feet allows the screens to be placed at 90° of each other.

- Width 1 860 mm, height 1 930 mm.
- Painted frame.
- Equipped with 7 strips of 1 750 mm height in accordance with EN 1598 standard.

Description	Complete	Set of 7 strips
Orange CE	W000010472	W000010257
Green S9	W000010474	W000010256



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Frames



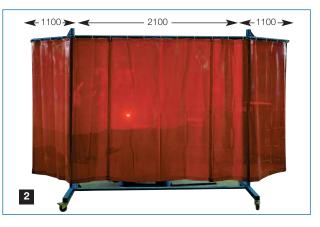
Frames - Tryptical

TRYPTICAL

The UNIVERSAL on wheels triptych frame is the more stable and the heaviest of our range.



- Screens frame made with square steel tubes of 50 x 30 x 2 mm, and round steel tubes of 35 x 2,5 mm.
- The big diameter movement wheels (75 mm) and the very robust frame make it a long-lasting investment.



1	Frame height 2 100 mm / Scre	en L 3 500 mm (700 + 2 100 + 700 mm)	Spare curtains	Kit of 4 spare strips 300 x 2 mm
Standard width	1 frame + 2 extensions + 3 curtains Height 1 800 mm	1 frame + 2 extensions + 1 set of accessories + 4 kits of 4 strips Height 1 800 mm	Width 1 400 mm Height 1 800 mm	Width 3 500 mm / Height 1 800 mm (overlap covering 66%)
Orange CE	W000010277	W000010282	3 x W000010356	4 x W000010333
Green T6	W000010275	-	3 x W000010352	-
Green T9	W000010276	W000010281	3 x W000010360	4 x W000010335
Transparent	W000010279	-	3 x W000010468	-

300 x 1 800 mm strips with a covering of 66%.

UNIVERSAL frame on wheels. Reference W000010269

• Swiveling extensions length 0,70 m. Reference W000010273

• For the strips screens : kit accessories. Reference W000010253

2	Frame height 2 100 mm / Scree	en L 4 300 mm (1 100 + 2 100 + 1 100 mm)	Spare curtains	Kit of 4 spare strips 300 x 2 mm	
Large width	1 frame + 2 extensions + 3 curtains Height 1 800 mm	1 frame + 2 extensions + 1 set of accessories + 5 kits of 4 strips Height 1 800 mm	Width 1 400 mm Height 1 800 mm	Width 4 300 mm / Height 1 800 mm (overlap covering 66%)	
Orange CE	W000010287	W000010292	3 x W000010356	5 x W000010333	
Green T6	W000010285	-	3 x W000010352	-	
Green T9	W000010286	W000010291	3 x W000010360	5 x W000010335	
Transparent	W000010289	-	3 x W000010468	Spare element	

• Swiveling extensions length 1,10 m. Reference W000010274

MODULABLE

42

- Frame's width 3 420 mm (810 mm + 1 800 mm + 810 mm) height 1 900 mm, weight 37 kg.
- Painted frame with 4 castors, including 2 with brakes.
- UV protection in accordance with EN 1598 standard.
- Curtain's height 1 300 mm.
- 2 colours: Orange CE and Green S9 (see page 43).

Description	Complete	Curtains only	
Orange CE	W000010476	W000010174	
Green S9	W000010478	W000010173	
Frame only	W000010175		

• Spare parts : 1 kit 4 castors: W000010497

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Kit 4 wheels: **W000010297** • 2 free • 2 blocking

Protection strips



Welding and protection strips

These strips are manufactured in accordance with the EN 1598 standard.

• Welding strips come in different colours:

Green S6



The choice of colour will depend on the welding process concerned. Generally a clear colour is convenient for brazing, flame welding and low amperage welding. The lighting of the workspace will be improved. The green S9 is designed for high amperage welding and/or special application like aluminium MIG welding.

Clear protection strips

Orange CE

Insure a protection against air, dust, humidity, spatters and noise.

They can be delivered either full rolls (50 meters) or cut and punched to any length. All strips are self extinguishing.



Strips with an overlap

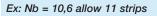
Overlap of 66 %:

- width of the strips 300 mm,
- fully screen due to a wide overlap,
- efficiency against cold and very good mechanical resistance.



If Nb < x,5 so Nb = x

If Nb > x,5 so Nb = x+1



In the first case, first and last strip will have a lower overlap. In the second case, first and last strip will have a wider overlap.

Overlap of 33 %:

- width of the strips 300 mm,
- mainly used if strips are frequently overpass.

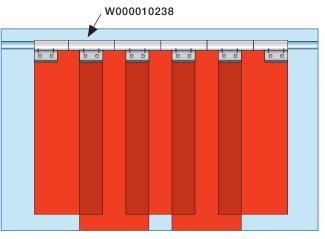
Nb =	L – 50
	250

Nb: number of stripsL: required length in mm

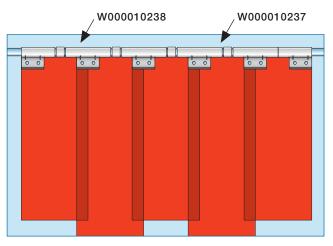
If Nb < x,5 so Nb = xIf Nb > x,5 so Nb = x+1

In the first case, first and last strip will have a lower overlap. In the second case, first and last strip will have a wider overlap.

Nota: don't forget the intermediate ring



Number of hooks is equal to number of strips + 1



Number of hooks is equal to number of strips + 1 Number of rings is equal to number of strips - 1

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PROFESSIONAL WELDING PRODUCTS BY





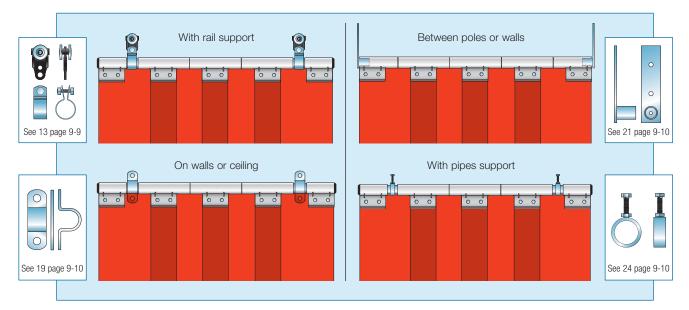
Protection strips

Selection number of 300 mm strips

Number	Overlap	o in mm	Number	Number Overlap in mm		1	Number	Overla	p in mm
of strips	66 %	33 %	of strips	66 %	33 %		of strips	66 %	33 %
1	300	300	13	2 700	3 300		25	5 100	6 300
2	500	550	14	2 900	3 550	-	26	5 300	6 550
3	700	800	15	3 100	3 800		27	5 500	6 800
4	900	1 050	16	3 300	4 050	-	28	5 700	7 050
5	1 100	1 300	17	3 500	4 300		29	5 900	7 300
6	1 300	1 550	18	3 700	4 550	-	30	6 100	7 550
7	1 500	1 800	19	3 900	4 800		31	6 300	7 800
8	1 700	2 050	20	4 100	5 050	-	32	6 500	8 050
9	1 900	2 300	21	4 300	5 300		33	6 700	8 300
10	2 100	2 550	22	4 500	5 550		34	6 900	8 550
11	2 300	2 800	23	4 700	5 800		35	7 100	8 800
12	2 500	3 050	24	4 900	6 050		36	7 300	9 050

Mounting and hanging of 300 mm strips

Different mounting configurations: examples of mounting: 300 mm strips with an overlap of 66%



Strip's hanging:

Remark: hanging hooks have to be fixed on the border of the strip just beside the overlap to avoid deformation or half-opening of the strips after use. Due to the hanging system, the first and the last hook have to be shortened.

Ring

W000010237 For an 33 %

overlap, between

two handing

hooks.

Strip's hook



Width 200 mm, for 33.7 mm pipes, (usable for 32 mm)

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Kit of 11 hooks:	W000010459
Kit of 10 rings:	W000010460

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Protection strips



TO ORDER

50 meters rolls

Width Thickness		Colour	Catalogue n°
200 mm	2 mm	Clear	W000010239
	2 mm	Orange CE	W000010230
	2 mm	Green S6	W000010228
	2 mm	Green S9	W000010229
300 mm	2 mm	Clear	W000010240
	3 mm	Orange CE	W000010232
	3 mm	Green S9	W000010458
	3 mm	Clear	W000010241



Weight of the strips

Width	Thickness	Weight per meter
200 mm	2 mm	0.45 kg
300 mm	2 mm	0.67 kg
300 mm	3 mm	1.00 kg
400 mm	4 mm	1.67 kg
570 mm	1 mm	0.67 kg

Cut and punched on request

	Width	Thickness	Colour	Comments	Catalogue n° for 1 meter
		2 mm	Orange CE		W000010235
300 mm	2 mm	Green S6 Standard punching		W000010233	
	2 mm	Green S9		W000010234	
	200 mm	2 mm	Clear	On request*	W000010243
	300 mm	2 mm	Clear	On request*	W000010244
	500 mm	3 mm	Clear	On request	W000010245
	400 mm	4 mm	Clear	On request*	W000010246

Comments: To receive 10 strips of 1 800 mm, you have to order 18 times the reference **W000XXXXXX** corresponding to the colour you need.

* Means items defined but not on stock. Normal delivery 2 weeks.

nte: To recei

By set

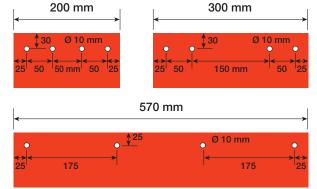
Number of strips	Width	Thickness	Colour	Height	Comments	Catalogue n°
	2 000 mm	1 mm	Orange CE	1 600 mm	Dedicated to PROTECTLITE frame.	W000010261
	2 000 mm	1 mm	Green S6	1 600 mm	Delivered with a set of 13 hooks Cat n° W000010483	W000010484
4 strips	2 000 mm	1 mm	Green S9	1 600 mm	For TRYPTICAL: 2 sets of strips and 2 sets of hooks.	W000010487
of 570 mm	2 000 mm	1 mm	Orange CE	1 800 mm		W000010262
width 2	2 000 mm	1 mm	Green S6	1 800 mm	Dedicated to HORUS frame.	W000010485
	2 000 mm	1 mm	Green S9	1 800 mm	Delivered with a set of 13 hooks Cat n° W000010483	W000010488
	2 000 mm	1 mm	Orange CE	2 000 mm		W000010263
3 x 4 strips of 300 mm	2 100 mm	2 mm	Orange CE	1 800 mm	Dedicated to UNIVERSAL frame (3 sets).	W000010333
width	2 100 mm	2 mm	Green S9	1 800 mm	Order also a kit of 11 hooks Cat n° W000010459	W000010335
7 strips of 300 mm	1 860 mm	2 mm	Orange CE	1 750 mm	Dedicated to ODTIL AM frame	W000010257
width	1 860 mm	2 mm	Green S9	1 750 mm	Dedicated to OPTILAM frame.	W000010256

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Standard punching for strip



Curtains



Welding curtains

The welding curtains are manufactured in accordance with the EN 1598 Standard

They are flame-retardant, with a width of 1 400 mm. To prevent a tearing of the material, the four sides are hemmed.

Made from PVC with a thickness of 0.4 mm (0.5 mm for the Green S9).

They are supplied with 7 eyelets across the width completed with 7 metal hanging rings.

The curtains can be joined by the snap fasteners fitted on the height side (12 cm from the border and 40 cm between the two curtains).

Green S9

3 colours are avalaible:

Orange CE	Green S6



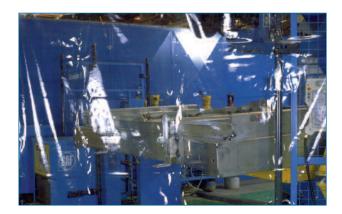
Clear curtains

Clear curtains are designed to protect against draught, moisture, cold, dust, and grinding debris.

They are flame-retardant with a width of 1 400 mm. To prevent a tearing of the material, the four sides are hemmed.

Made from PVC material which is 0.4 mm thick. They are supplied with 7 eyelets across the width completed with 7 metal hanging rings.

The curtain's juxtaposition is provided by snap fasteners on the height side (12 cm from the border and 40 cm between two curtains).



Thickness	Width	Height	Colour	Catalogue n°	Comments
			Orange CE	W000010354	
		1 400 mm	Green S6	W000010350	
		1 400 11111	Green S9	W000010358	
			Clear	W000010466	
			Orange CE	W000010355	
		1 600 mm	Green S6	W000010351	For PROTECTLITE 2 curtains
			Green S9	W000010359	and TRYPTICAL 3
	1 400 mm		Clear	W000010467	
	1 400 11111	1 800 mm	Orange CE	W000010356	For curtain support
0.4 mm			Green S6	W000010352	(1 curtain) and
			Green S9	W000010360	for UNIVERSAL
			Clear	W000010468	(2 curtains)
		2 000 mm	Orange CE	W000010357	
			Green S6	W000010353	
			Green S9	W000010361	
			Clear	W000010469	
			Orange CE	W000370400	
	1 700 mm	2 000 mm	Green S6	W000371216	ONLY for PREMIUM (screen)
			Green S9	W000370401	
0.4 mm	0.400 mm	1 000 mm	Orange CE	W000010174	ONLY for
0.4 ጠጠ	3 420 MM	3 420 mm 1 300 mm -	Green S9	W000010173	MODULABLE (screen)

Other curtains:

On request under 15 days: height of 2 200 mm, 2 400 mm, 2 600 mm, 2 800 mm, 3 000 mm.

Special dimensions for curtain on request:

Price per m² with eyelets on the width side, click-in buttons on the height side and metallic handling rings.

Clear

Catalogue n°: W000010470

Colored (Orange CE, S6, S9) Catalogue n°: W000010465

For example to order 2 curtains

Width 1.80 m x height 3.00 m = 5.4 m^2 , so for 2 curtains, needs = $10.8 \text{ m}^2 = 11 \text{ m}^2$. Eyelets on the width and clicking buttons on the height.

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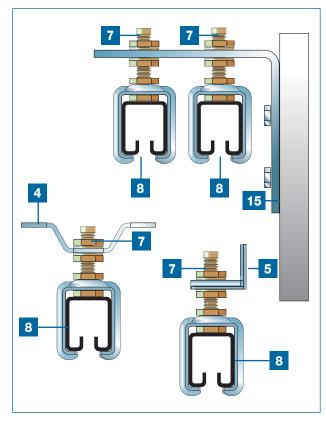


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Rail 30 x 35

(between 2 supports - maximum length 2 meters - maximum weight 57 kg)

	Designation	Catalogue n°
1	Ceiling rail connector single rail	W000010209
2	Ceiling rail connector double rail	W000010210
3	Side wall rail connector	W000010208
4	Ceiling support for rail support	W000010214
5	Wall support for rail supports part	W000010213
6	Rail connector for 2 rails long bolt M10	W000010212
7	Rail support with long bolt M10	W000010211
8	Rail 3 000 max (30 x 35 mm) - 1 meter - 2 meters - 3 meters	W000010199 W000010200 W000010201
9	End piece	W000010215
10	Rail 90° elbow, radius 500 mm	W000010205
11	Rail stop with buffer	W000010216
12	Four-wheel runner	W000010178
13	Two-wheel runner	W000010177
14	Plastic two wheel runner (for curtains)	W000010176
15	Side wall support for double rail or pipe	W000010207
16	Universal support	W000010218
17	Sliding hook, plastic	W000010221
18	Extremity rail support for curtains	W000010217



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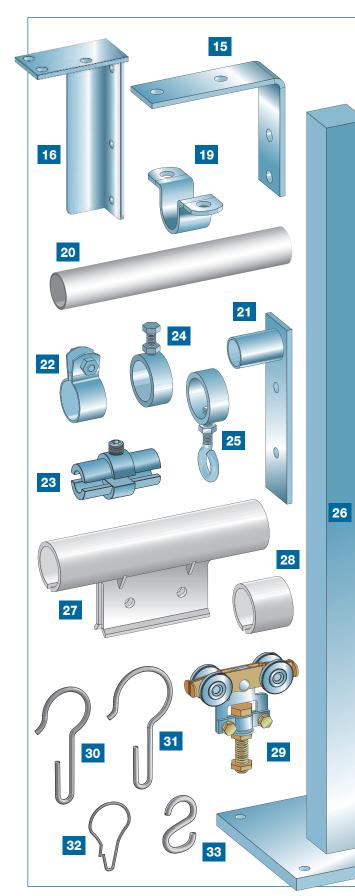
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Tube 33.7 mm and accessories

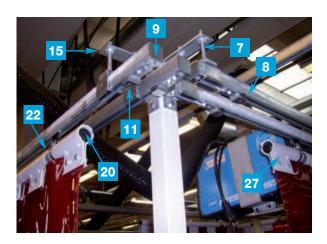


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	Designation	Catalogue n°
15	Side wall support for double rail or pipe	W000010207
16	Universal support	W000010218
19	Ceiling support for rail support	W000010182
20	Pipe Ø 33.7 mm - 1 meter - 2 meters - 3 meters	W000010187 W000010188 W000010189
21	Flange for connecting pipe	W000010183
22	Pipe support	W000010181
23	Pipe connector	W000010185
24	Pipe support for long dimension	W000010184
25	Opening ring	W000010223
26	Poles - 50 x 50 x 2 250 mm - 50 x 50 x 2 500 mm - 50 x 50 x 2 700 mm - 50 x 50 x 3 000 mm - 80 x 80 x 2 500 mm - 80 x 80 x 3 000 mm	W000010194 W000010196 W000010197 W000010198 W000010195 W000010193
27	Suspension clip plastic	W000010238
28	Ring (33 %)	W000010237
29	Four wheel runner with tunable thread	W000010179
30	10 open rings 5 mm Ø 50	W000010220
31	10 open rings 4 mm Ø 40	W000010219
32	7 curtain's rings	W000010170
33	10 S rings	W000010206



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Opening system

Curtain's swivel winch

- Winch with wire strainer
- Cable
- Maximum gap 8 000 mm
- Delivered without curtain.

Catalogue nº: W000010301



Swivel arm with indexing position for curtains or strips

Suitable for 50 x 50 mm column

- Indexing position: 90°, 0, + 90°
- Length 1 000 to 2 000 mm, to be indicated when ordering Catalogue n°: W000010298

Suitable for 80 x 80 mm column

- Indexing position: 90°, 0, + 90°
- Length 2 000 to 4 000 mm, to be indicated when ordering

Catalogue nº: W000010299

Swivel arm with indexing position for curtains or strips

Suitable for 120 x 120 mm column or a wall, with double hinges

- Indexing position: 90°, 0, + 90° on the two hinges
- Length 2 000 to 4 000 mm, to be indicated when ordering

Catalogue nº: W000010300



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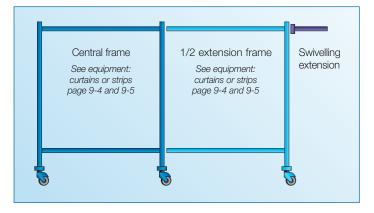




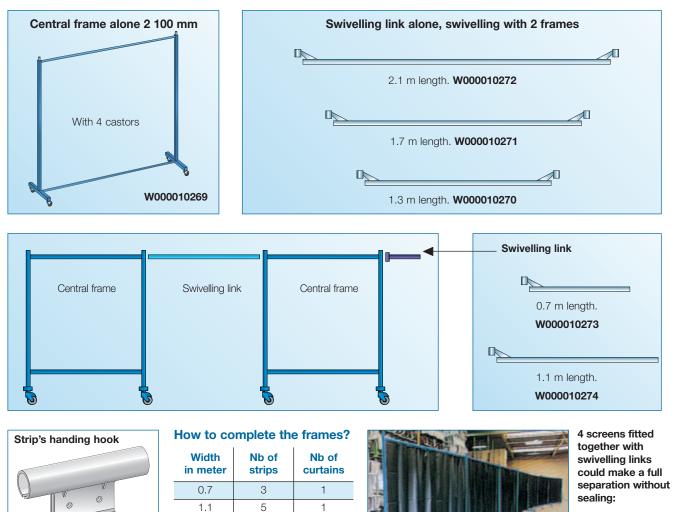
Opening system

Modular components TRYPTICAL

- Central frame: length 1 900 mm, height 2 000 mm. Catalogue n°: W000010224
- Extension frame: length 1 900 mm, height 2 000 mm. Catalogue nº: W000010225
- Set of 2 swivelling support for 1/2 extension frame. Catalogue n°: W000010227
- Set of 2 extension frames 800 mm. Catalogue n°: W000010226
- Set of 2 castors spares, one with brakes. Catalogue n°: W000010497



Modular components UNIVERSAL



- = 4 x W000010269
- + 2 x W000010272
- + Strips and hooks

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10 * take in account the total length of the structure

6

8

1

2'

2

1.3

1.7

2.1

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W000010238

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Curtains and heat resistant fabrics



Insulating products

This kind of product is used either to cool down parts in a controlled way or to protect people from hot particles.

New finishing: - Stainless steel wire coated with Kevlar - Seams strengthened - Grid fabrics

Welding cushions

Prevent welders from injuries due to hot particles and/or offer them a better and more comfortable welding position. Cushions are filled with glass fibre.

Cushions	Thickness	Catalogue n°
500 mm x 500 mm	80 mm	W000010541
1 000 mm x 1 000 mm	80 mm	W000010542

Temperature: 550 °C, peak at 600 °C.



Insulating sleeves

Specially designed for control cooling down of just welded pipes. They can be adapted to different diameters and size of the surrounded parts.

Insulating sleeves	Diameter	Catalogue n°
1 000 mm x 500 mm	280 mm	W000010543
1 500 mm x 500 mm	440 mm	W000010544
2 000 mm x 500 mm	610 mm	W000010545

Temperature: 550 °C, peak at 600 °C.



Insulating blankets

Specially designed to control cooling down of just welded parts.

Insulating blankets	Thickness	Catalogue n°
1 000 mm x 2 000 mm	30 mm	W000010546
2 000 mm x 2 000 mm	30 mm	W000010547
1 000 mm x 2 000 mm	60 mm	W000010548
2 000 mm x 2 000 mm	60 mm	W000010549

Temperature: 550 °C, peak at 600 °C.



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Curtains and heat resistant fabrics



Name	Base	Application	Temp. (°C)	Weight (gr/m²)	Finition	Dimensions (mm)	Catalogue n°
VULCAIN Curtain (1)						1600 x 1500	W000010316
	Glass fiber 2 sided PU	Horizontal and vertical, lightwelding and grinding	Peak: 600 / Continuous: 550	720	Grey	1800 x 1500	W000010317
						2000 x 1500	W000010318
CHRONOS						1000 x 2000	W000274163
				690	Grey	2000 x 2000	W000274164
	Glass fiber	Horizontal and vertical,	Peak: 600 / Continuous:			2000 x 3000	W000274165
	1sided PU	lightwelding and grinding	9 550			3000 x 3000	W000274166
						4000 x 4000	W000274168
						1000 x 25 m *	W000274169
VULCAIN BLANKET (2)						2000 x 1000	W000010319
					Grey	2000 x 2000	W000010320
						3000 x 2000	W000010321
_ /	Glass fiber 2 sided PU	Horizontal and vertical, lightwelding and grinding	Peak: 600 / Continuous: 550	720		3000 x 3000	W000010322
						4000 x 3000	W000010323
						4000 x 4000	W000010324
						1000 x 25 m*	W000010498

*full roll not hemmed (1): on request, height 2200 mm / 2400 mm / 2800 mm / 3000 mm delivered under 3 weeks (2): on request, per square meter W000010528(3): on request, per square meter W000010332



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Curtains and heat resistant fabrics

Name	Base	Application	Temp. (°C)	Weight (gr/m²)	Finition	Dimensions (mm)	Catalogue n°									
VESUVIO						1000 x 1000	W000010529									
			Peak: 750 /			2000 x 1000	W000010530									
	Glass fiber (filament)	Horizontal and vertical,			Dark	2000 x 2000	W000010531									
	2 sided calcium silicate	welding and grinding	Continuous: 700	690	grey	3000 x 2000	W000010532									
						3000 x 3000	W000010533									
						4000 x 3000	W000010534									
ETNA "3"						1000 x 1000	W000010325									
						2000 x 1000	W000010326									
	Glass fiber (texturized), HT - 2 sided PU	, Horizontai , heavy	heavy Continuous:	1220		2000 x 2000	W000010327									
~ /					Grey	3000 x 2000	W000010328									
						3000 x 3000	W000010329									
						4000 x 3000	W000010330									
						4000 x 4000	W000010331									
SIRIUS						1000 x 2000	W000274170									
		Horizontal heavy duty welding work, very high flame resistant				2000 x 2000	W000274171									
~ /	Glass fiber (texturized)		work,	work,	work,	work,	work,	work,	work,	work,	work,	Peak: 1000 / Continuous: 700	1035	Lignt brown	2000 x 3000	W000274172
			flame			3000 x 3000	W000274173									
						1000 x 25 m*	W000274174									
STROMBOLI						1000 x 900	W000010535									
	Silicate fiber	Horizontal,				2000 x 900	W000010536									
	filament 2 sided	hent work, ded resistant to	Peak: 1300 / Continuous: 1000	1220	Light brown	2000 x 1800	W000010537									
	vermiculite					3000 x 1800	W000010538									
						3000 x 2700	W000010539									



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L

Sound insulating walls



PHONIC 60 range

This modular system allows to compose a welding booth system, providing a confortable protection against light and noise when welding or grinding.

Customer benefits:

- Very strong structure
- Very good sound insulation
- Easy mounting

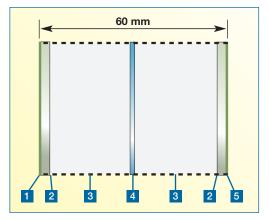
Panel's height is 2 010 mm or 2 510 mm with 510 mm or 1 010 mm width. Bottom space is generally 140 mm for 2 010 mm panels and the wall can also be delivered without free space.

Technical characteristics

Thickness of the panel 60 mm.

Made with 7 sandwiched layers that guarantee their efficiency:

- Perforated steel plate or full steel plate (for external face) 0.8 mm thick.
- 2 Wool and glass fibre with anti-dust treatment
- 3 Sound absorbing rock wool 25 mm
- 4 Steel plate 1.0 mm thick
- 5 Perforated steel plate (for internal face) 0.8 mm thick.



Panels and frames are painted internally and externally with U.V. absorbing paints (RAL 5015 blue or RAL 6011 green). The panels are resistant to welding or grinding spatters. They are flame-resistant.

They make your workshop safe and comfortable.



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PROTECTION EQUIPMENT

COLLECTIVE

Sound insulating walls



Panel PHONIC 60

Width (mm)	Height (mm)	Configuration	Panel	Orange window 1000 x 1000 mm	Catalogue n°
510	2010		Perforated/		W000375311
1010	2010		perforated	No	W000375312
510	2010	Foot		INO INO	W000375313
1010	2010		Perforated/ full		W000375314
1010	2010		T C III	Yes	W000375315
510	2010				W000375321
1010	2010		Perforated/		W000375322
510	2510		perforated		W000375323
1010	2510	- Floor fitting		No	W000375324
510	2010			INO	W000375325
1010	2010				W000375326
510	2510		Perforated/		W000375328
1010	2510		full		W000375329
1010	2010	1		Yes	W000375327
1010	2510			res	W000375330
1010	2010	Ora uda a ala	Perforated/	Nia	W000375337
2010	2010	On wheels	perforated	No	W000375338

Accessories for assembly

Accessories for assembly	Catalogue n°
Corner post 2200 mm height	W000375316
Corner post 2500 mm height	W000375331
Tube 2200 mm long for T or cross panel assembly	W000375319
Tube 2500 mm long for T or cross panel assembly	W000375332
Floor bracket 60 x 60 for tube T or cross panel assembly	W000375320
U profil for floor mounting, length 2850 mm	W000375333
Wall U profil for panel on foot height 2010 mm	W000375334
Wall U profil for panel on floor fitting height 2010 mm	W000375335
Wall U profil for panel on floor fitting height 2510 mm	W000375336

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Example for the construction of a PHONIC grinding booth

A 4 panels on foot (height 2010 mm - width 510 mm) **B** 8 panels on foot (height 2010 mm - width 1010 mm) C 1 tube for assembly in T D 2 corner posts

Sound insulating elements



PHONIC 60 - Grinding booths

PHONIC 60 grinding booths are made with 2500 mm high PHONIC panels, roof and side panels. In standard the panels come in blue color (RAL 5015). On request other colors are possible.

Panels are sound absorbing with a sandwich structure perforated inside and full outside.

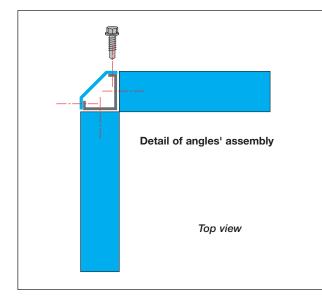
Depending on their size, the booths will be equipped of one single door or a double door.

The single door includes a translucent oculus and opens on the right side.

Inside the door is equipped with an anti panic opening device.

The double doors are identic with an oculus and an anti panic device on each.

The booths lie on the ground on a "U" profile which will be screwed. Under the "U" profile a seal will be better to compensate for unevenness.

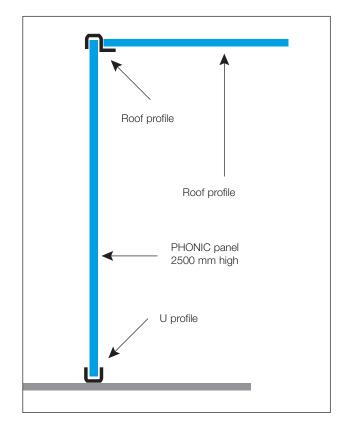


Every closed room where somebody can stay has to be equipped with ventilation. For one worker this ventilation has to be at least 30 m³/h.

To satisfy this requirement, the roof includes an opening 200 \times 200 mm to fit general ventilation.

This is completed by a sound absorbing air inlet at the bottom.

This ventilation is independent of the eventual pollution extraction which can be necessary.



Standard booths' dimensions

Length	Width	Simple door	Double doors	General ventilation	Air inlet (acoustic)	Overall dimensions	Catalogue n°
2000 mm	2000 mm	Yes	-	Included 60 m ³ /h	Yes	2 144 x 2 144 mm	W000010550
3000 mm	2000 mm	Yes	-	Included 90 m ³ /h	Yes	3 156 x 2 144 mm	W000010551
2500 mm	2500 mm	Yes	-	Included 90 m ³ /h	Yes	2 656 x 2 656 mm	-
3000 mm	2500 mm	Yes	-	Included 120 m ³ /h	Yes	3 156 x 2 656 mm	-
4000 mm	2500 mm	-	Yes	Included 150 m ³ /h	Yes	4 168 x 2 656 mm	-
5000 mm	2500 mm	-	Yes	Included 180 m ³ /h	Yes	5 180 x 2 656 mm	-
6000 mm	2500 mm	-	Yes	Included 200 m ³ /h	Yes	6 192 x 2 565 mm	-

For other dimensions consult us

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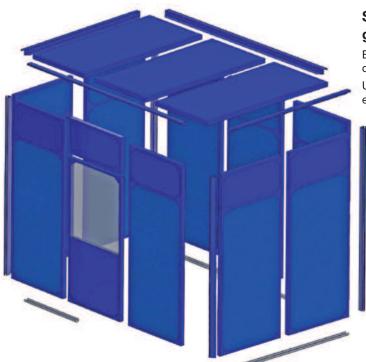
Sound insulating elements



Grinding booth: L = 7 000 mm, W = 4 500 mm, H = 2 500 mm

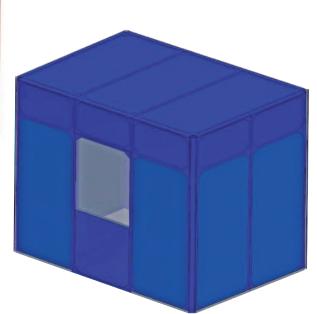


Grinding booth 2 500 x 4 000, H 2 500, with 4 grinding tables. Automatic starting of the air extraction by detection of the operator in front of the table. Reintroduction of air into the booth after dusts' filtering. General ventilation of the cabin and lighting.



Standard PHONIC 60 grinding booths

Building details of a 2000 x 3000 mm booth. U profile on the ground and door equipped with a window.



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AIR LIQUIDE

Sound insulating booths



Sound insulating booths PROPHONIC 100

PROPHONIC 100 panels

The panels, which are the base of the ALW insulating booths, were made to answer to increasing requests for performance of the sandwiches panels, in terms of acoustic absorption. The panels are also flame-retardant.



The rock-wool sandwiches panels PROPHONIC 100 are isolated, dividing up and free-standing elements. They contain a rock-wool nucleus with very high density oriented fibers. The fibers are vertically disposed on the surface and unrolled in loops, longitudinally moved and transversally compacted.

Metal supports

- Sendzimir galvanized steel sheets (UNI EN 10326 UNI EN 10327).
- Pre-lacquered galvanized steel sheets, with the Coil-Coating process.
- Aluminum alloy sheets, with natural finish, stucco and pre-lacquered (EN 485 norm).
- Pre-lacquering made by continuous process, with a width of micrometers and 20 micrometers of painting on the visible side.
- Perforated sheet: diameter of the holes : 3 mm, center distance: d = 5 mm.

Isolating mass

• Isolating coat realized thanks to high density mineral fibers (**75 kg/m³**, m = 0,040 W/mK at 10°C).

Useful charge

- Deformation: an arrow equal or inferior to 1/200 of reach is admitted.
- Flexion: we supposed the effort of flexion was completely absorbed by the support sheets.
- Cutting: we supposed the sharp effort was absorbed partially by the support sheets and partially by the insulator.
- The indicated data in the tables are to consider as purely indicative.

Panels' weight

• Width 100 mm: 17.32 kg/m².

Acoustic insulation

• Rw = 35 dB - (for the panels of width 100 mm).

Acoustic absorption

• Weighed coefficient of acoustic absorption w = 1.

Fire resistance (circular N°91 of the 14/09/1961)

 The tested PROPHONIC 100 panels have obtained the following results: REI* 60 for a panel of width 100 mm.

*REI = Resistance Water tightness Insulation

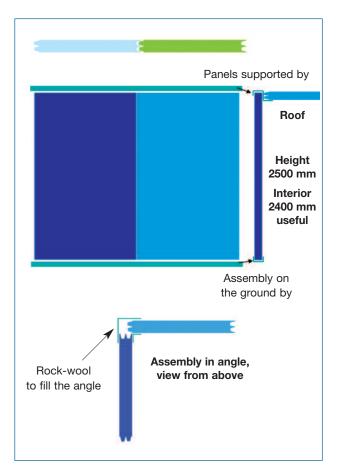
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Standard color of the booths: Cream



Construction detail of the PROPHONIC 100 booths

- Pannel of thickness 100 mm, width 1000 mm.
- Exterior: full sheet / Interior: perforated sheet.



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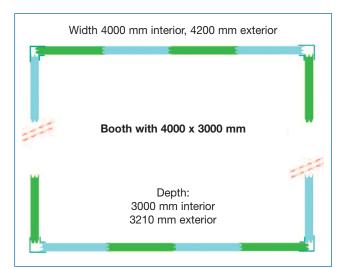
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Sizing of the PROPHONIC 100 booths with 1 000 mm panels







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Composition of a PROPHONIC 100 booth

- A sound insulating Prophonic 100 booth can be chosen between 2 heights:
 - Panels height 2500 mm
 - Panels height 3000 mm
- It will be completed by one or several double thickness translucent oculus doors, realized in Polycarbonate thickness 6 mm. Simple width door 1000 mm or double width door 2000 mm. The doors are delivered with a handle on the exterior and an anti-panic bar on the interior.
 All of them are opening by "pushing from the inside" for security reasons.
- A general ventilation of 200 m³/h single-phase 230 V 50 Hz has been planned for a human presence. This ventilation has to be independent from the specific pollutants ventilation that can be implemented in the booth. This ventilation is composed by a ventilator on the roof of the booth and a low air inlet on one of the panels, with an acoustic plenum.
- The booth may have a maximal width of 6000 mm.
- Its length will depend on the client's need.
- As a complement, when the roof is entire, if a ventilation intended to get the specific pollutants is placed inside the booth, without recycling, we can provide air inlets of section 1 m², with acoustic plenum.
 - These inlets allow avoiding the depressurizing of the booth.
- Generally, an air reintroduction speed close to 2 m/s is kept, namely 7200 \mbox{m}^3/\mbox{h} for 1 $\mbox{m}^2.$

Choice of a PROPHONIC 100 booth

Height of the booth	2 500 mm	3 000 mm
Length of the booth (in m)		
Width of the booth (in m)		
Air inlet (in m ²) to compensate specific ventilation		
General ventilation		
Simple door with oculus		
Double door with oculus		

To define the client need, it is necessary to know the parameters listed above.

The ALW commercial service will give you the price of your booth defined in this way, with or without the assembly realized by our team.





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AIR LIQUIDE

Partition steel panels



Welding booths with painted sheet (diamond point shape)

Welding booths or work booths can also be made with WELDLINE modular steel panels. These panels can be painted with any colour or galvanized. We recommand not to do clear painting or galvanized booths for welding environment.

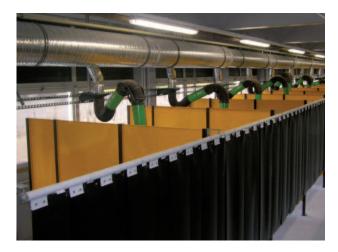
These panels are designed for a very strong structure diamond point shape. Two widths are possible 960 mm or 460 mm and a height of 1 960 mm.

They are fitted on 50 mm x 50 mm poles with a height of 2 250 mm, and a footplate.

The height of the booths will be identic to the poles (2 250 mm), with a free space at the bottom to make the cleaning easier.

The booth can be equipped either with strips or curtains.

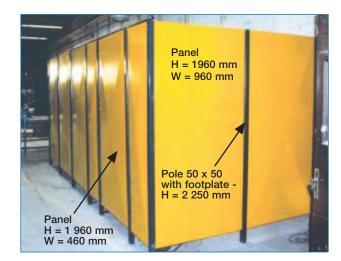
Dimensions	Catalogue n°
Panel H = 1 960 mm, W = 460 mm	W000010302
Panel H = 1 960 mm, W = 960 mm	W000010303
Pole 50 x 50 H = 2 250 mm	W000010194



General views of welding booths built with partition steel panels in training welding center



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Booths closed with strips (300 mm x 2 mm) 33% overlap.

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Welding tents

Width 2 000 mm, length 2 000 mm, height on the sides 2 000 mm, on the middle 2 200 mm.

Canvas is made of white mat PVC (630 $\mbox{g/m}^2\mbox{)}$ certificated fire resistant M2.

2 openings: one in front, one in the back, closed with eyelets and staps.

All around a protection of 200 mm provides a full insulation against bad weather. The structure is made of galvanized tubes of 25 mm.

+ product:

- Self extinguishing canvas certificated M2.
- Resistant structure.
- Height of 2 200 mm in the middle.
- Good insulation.

	Catalogue n°
Canvas	W000274366
Structure	W000274367



Impact plates



M2 CERTIFICAT



PVC plates 3 mm width. Comply with EN 1598.

Orange CE - Protection against welding light transmission.

Exist in 2 050 mm x 1 250 mm x 3 mm 1 025 mm x 1 250 mm x 3 mm custom - mode product

	N 1598	
Catalogue n°		
W000274744	2 050 mm x 1 250 mm x 3 mm	
W000274745	1 025 mm x 1 250 mm x 3 mm	

* Means item defined but not on stock. Normal delivery 2 weeks

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3 MMA WELDING

welding tools and accessories 3-MMA welding



- Electrode holders 64 to 67
- Gouging torches 68 to 69
- Ovens / Quivers 70 to 73

For: clamps, connectors, cables, hammers, ceramic backings and others see chapter 5 "**Other arc welding**"



Electrode holders





The choice of an electrode holder follows several criteria.

 In Europe the supplier has to conform to the European standards on these products, for Health and Safety reasons.

The **CE** marking confirms the conformity of the product to these standards.

DON'T BUY ELECTRODE HOLDERS WITHOUT THIS MARKING.

- Choose your holder according to the maximal electrode diameter you use.
 This diameter dictates the maximum amperage and subsequently the size of the welding cable.
- Once the above criteria are established, the remaining choice is one of personal preference.

Screw type

Very secure grip of the electrode that gives the possibility to twist the electrode once tightened.



Lever type

Secure grip of the electrode between the jaws with predefined angles for the electrode position, easy butt ejection.



EN 60974-11

Selection criteria for the different type of electrode holders can be seen on the enclosed pages. Obviously the electrode holder will accept all sizes of electrode to the stated maximal diameter.

The lever type electrode holders are divided into two sections, large opening type - that has the optional pre-defined angles and closed head type - that has only a single position option.

PROFESSIONAL WELDING PRODUCTS BY

AIR LIQUIDE

Electrode holders





Screw 1 Choice o	type electrode	holders		<u>>l </u> ✓l mm △ Maximum	Ø : mm² Maximum
	TWIST 200			3.2	25
	TWIST 400		2004-488	5.0	50
Screw type	VESTALETTE 250		2011-033	4.0	35
straight	STUBBY 400		2004-215	6.3	50
	MASTER 500		2012-668	8.0	95
	VESTALE 500		0947-68	8.0	95
Screw type	CURVA 400			5.0	50
curve	CURVA 600		6.3	70	

Name	Cat N°	A (35%)	Ø cable (mm²)	Electrode diameter (mm)	Weight (g)	Customer's benefit
TWIST 200	W000010565	200	25	3.2	335	Economical electrode holders. Insulation class: A.
TWIST 400	W000010566	300	50	5.0	480	Well balanced, rubber handle, left hand thread.
VESTALETTE 250	W000010035 W000010883*	250	35	4.0	295	Light and totally insulated, fibre glass head long life duration, left hand thread. Insulation class: A.
STUBBY 400	W000010036 W000010879*	400	50	6.3	450	Well known, fibre glass single part head. Spare parts available, right hand thread. Insulation class: A.
MASTER 500	W000010037 W000010882*	500	95	8.0	530	Well known, fibre glass single part head. Spare parts available, right hand thread. Insulation class: A.
VESTALE 500	W000010038 W000010880*	500	95	8.0	470	THE heavy duty electrode holder. Insulation class: A. High resistance. Fibre glass head, left hand thread.
CURVA 400	W000010573	300	50	5.0	540	Curved electrode holders, Insulation class; B.
CURVA 600	W000010574	400	70	6.3	720	Curved electrode holders, insulation class, b.

* Cat. number for display

Spare parts	Cat N°
MASTER - Head	W000011082
STUBBY - Head	W000260716
MASTER - Insulation	W000011083
STUBBY/MASTER - Spring	W000011084
STUBBY/MASTER - Handle	W000011077

Spare parts	Cat N°
STUBBY - Body	W000011085
VESTALE - Handle	W000011086
VESTALE - Head	W000011087

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3 MMA WELDING

Electrode holders





Lever type opened head electrode holders

Choice criteria			Maximum	Ø: mm² Maximum
CAÏMAN 200			3.2	25
CAÏMAN 400	Philade Philade (f f apple 2)	2004-491	5.0	50
CAÏMAN 600		5	6.3	70
SAMSON ECO 300		2004-648	6.3	70

Name	Cat N°	A (35%)	Ø cable (mm²)	Electrode diameter (mm)	Weight (g)	Customer's benefit
CAÏMAN 200	W000010567	200	25	3.2	370	Economical electrode holders.
CAÏMAN 400	W000010568	300	50	5.0	425	Polyamide handle, fibre glass reinforced.
CAÏMAN 600	W000010569	400	70	6.3	500	Brass jaws. Insulation class: B.
SAMSON ECO 300	W000010622	300	70	6.3	450	Light version, well known SAMSON electrode grip. Insulation class: A.

Lever type closed head electrode holders

Choice criteria		<u>>l</u> <u>→</u> <u>∕l mm</u> <u>→</u> Maximum	Ø : mm ² Maximum
SEGURA 300		4.0	35
SEGURA 400	2004-493	5.0	50
SEGURA 600	500	6.3	70
COBRA 300	2011-0,32	6.3	50
OPTIMUS 300		6.3	70
OPTIMUS 400	2004-647	8.0	95
OPTIMUS 500	500	8.0	95
TONG GRIP 400	0947-67		

Name	Cat N°	A (35%)	Ø cable (mm²)	Electrode diameter (mm)	Weight (g)	Customer's benefit
SEGURA 300	W000010570	300	35	4.0	415	Economical models.
SEGURA 400	W000010571	300	50	5.0	570	Nylon handle.
SEGURA 600	W000010572	400	70	6.3	590	Brass jaws. Insulation class: B.
COBRA 300	W000010039 W000010881*	300	50	6.3	420	Light and multi purpose. Insulation class: A.
OPTIMUS 300	W000010410	300	70	6.3	460	High quality electrode holder. Well-known for
OPTIMUS 400	W000010411	400	95	8.0	560	intensive use and powerful grip on the electrodes. Specially designed for heavy duty works with a comfortable
OPTIMUS 500	W000010412	500	95	8.0	620	handle. Insulation class: A.
TONG GRIP 400	W000010040	400				

* Cat. number for display

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Hobby and light duty electrode holders

Choice criteria		Maximum	Ø : mm² Maximum
HOBBY 200	2004-196	4.2	25
САЇМҮ 200	2004-486	3.2	25

Name	Cat N°	A (35%)	Ø cable (mm²)	Electrode diameter (mm)	Weight (g)	Customer's benefit
HOBBY 200	W000268399					
CAÏMY 200	W000010576	200	25	3.2	220	A small professional tool for light works. Insulation class: B.

MMA kits

Kits of accessories for MMA welding: electrode holders, earth clamps, cables and connectors, already assembled.

Advantages:

- "Ready to weld".
- A simple and full range in relation with all welding machines.
- Save 30 minutes of assembly time, before welding.
- Recommendations in relation to welding processes.

The kits choice depends of several criteria:

Sections of machine sockets:

- Plugs of 9 mm diameter correspond to a cable cross-section between 16 mm² and 25 mm².
- Plugs of 13 mm diameter correspond to a cable cross-section
- between 35 mm² and 50 mm² (max 90 mm²).

Application & intensity

The range:

- First digits describe cable diameter.
- Second digits describe type of connector.



Cat N°	Kit	I max at 35%	Electrode holder	Cable length	Earth clamp	Cable length	Plug diameter	MMA power sources' types and applications
W000011138	25C25	200 A	CAIMAN 200	3 m	HIPPO 200	3 m	9 mm	Small intensity power sources for semi professional welding
W000260683	25C25+	300 A	SEGURA 300	3 m	HIPPO 400	2 m	9 mm	Small intensity power sources for working site up to Ø 4 mm
W000260684	25C50	300 A	SEGURA 300	3 m	HIPPO 400	3 m	13 mm	High intensity power sources for intensive use (up to \emptyset 4 mm) or work site
W000011139	35C50	300 A	SEGURA 300	4 m	HIPPO 400	4 m	13 mm	High intensity power sources for intensive use (up to \emptyset 4 mm) or work site
W000260681	50C50	300 A	SEGURA 400	4 m	HIPPO 400	4 m	13 mm	High intensity power sources for intensive use (up to \varnothing 5 mm) or work site
W000260682	50C50+	400 A	SEGURA 600	4 m	HIPPO 600	4 m	13 mm	High intensity power sources for intensive use (up to $Ø$ 6.3 mm) or work site

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PROFESSIONAL WELDING PRODUCTS BY





Gouging torches

FLAIR®

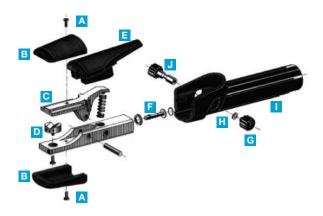
The FLAIR[®] gouging torch is a high quality torch. The airflow can be regulated on the torch. The recommended air pressure is 7 bar.



	Current (A)	Electrode Ø max	Cat N°
1 FLAIR 600	600	10 mm - 3/8"	W000010136
2 FLAIR 1600	1600	19 mm - 3/4"	W000010118









Spare parts

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Description	FLAIR [®] 600	FLAIR [®] 1600
A Screw MRX 4 x 10 mm (10 pieces)	W000010124	
B Insulation cap (2 pieces)	W000010125	
C Brass lever	W000010126	
D Injection nozzle complete with taptite	W000010127	W000011130
E Lever insulation	W000010128	
F Valve	W000010129	
G Push-button	W000010130	
H Safety ring (10 pieces)	W000010131	
I Handle	W000010132	W000011127
J Push-button and link	W000010133	
Monocable	W000010134	W000011128

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AIR LIQUIDE

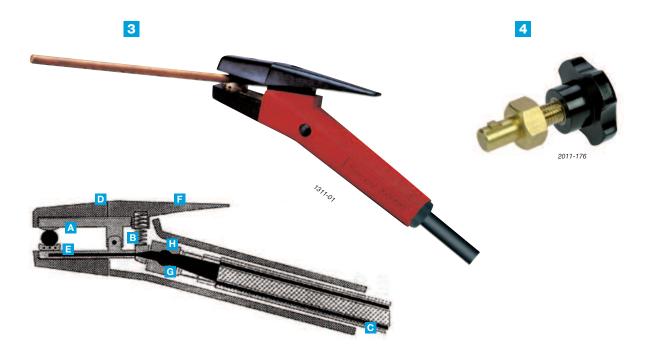
Gouging torches



ARCAIR K4000®

A well-known brand name in gouging process.

	Current (A)	Electrode Ø max	Cat N°
3 K 4000	1000	13 mm - 1/2"	W000010992
4 Arcair adaptator	-	-	W000370297



Spare parts

Description	K 2000	K 4000
A Jaw	W000011033	W000010991
B Spring	-	W000010990
C Cable 2.1 m	-	W000010993
D Shell	W000011030	W000010994
E Head	W000011031	W000010995
F Lever	W000011032	W000010996
G Body	-	W000010997
H Pushing kit	-	W000010998

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Ovens / Quivers



before use, carefully read and understand the safety CAUTION:

datasheet available on www.weldline-alw.com

WELDRY PW8 / PW15 / 372 N INOX **Portable guivers**

PW8 and PW15 portable quivers are necessary, for electrodes maintenance, near the welding working place. They preserve the electrodes from moisture avoiding hydrogen inclusion in the welding joint.

PW8 and PW15 portable quivers are provided with a handle, useful for moving. They also contain an extractable basket that avoids waste of heat. PW8 and PW15 ovens are provided with built-in adjustable thermostat.

For the 372 N: preset temperature to 120°C, plated heater resistance against the reservoir electrodes which allows a good repartition of temperature.



Technical data	WELDRY PW8	WELDRY PW15	WELDRY 372 N - INOX
Capacity (n. of electrodes)	100 electrodes Ø 3.25 mm	200 electrodes Ø 3.25 mm	100 electrodes Ø 3.25 mm
Power	0.130 kW	0.275 kW	0.230 kW
Capacity	5 kg	10 kg	5 kg
Power supply	Single-phase 24 V or 230 V - 50/60 Hz		
Internal size	72 x 72 x 470 mm	100 x 100 x 470 mm	Ø 82.5 x 480 mm
External size	140 x 180 x 630 mm	180 x 220 x 630 mm	225 x 535 mm
Net weight	5 kg	8 kg	5.5 kg
Cat N°	W000120427	W000120428	W000383150
Cat N° (24 V)	W000371464	-	-
All WELDRY ovens are supplied			

with 2 m long cable

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PW8

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Ovens / Quivers



Holding ovens for MMA electrodes

MW ovens are used to keep the treatment of electrodes after the drying cycle and before the welding process. They preserve the electrodes from moisture, avoiding hydrogen inclusion in the welding joint.

Equipped with a digital control panel and two adjustable thermoregulators for air and heating elements protection, positioned in front of the oven.





CAUTION: before use, carefully read and understand the safety datasheet available on www.weldline-alw.com





Technical data	WELDRY MW2	WELDRY MW4	WELDRY MW6	
Shelves number	2	4	6	
Capacity for each shelf	1500 electrodes	1500 electrodes	1500 electrodes	
Temperature regulation thermostat		up to 200 °C		
Power	2.7 kW	2.7 kW	4.5 kW	
Capacity (weight and number of electrodes)	135 kg - 3 000 el. Ø 3.25 mm	270 kg - 6 000 el. Ø 3.25 mm	405 kg - 9 000 el. Ø 3.25 mm	
Power supply	Single phase 230 V - 50/60 Hz		Three phase 380 V - 50/60 H	
Internal size	720 x 510 x 350 mm	720 x 510 x 620 mm	720 x 510 x 890 mm	
External size	830 x 690x 760 mm	830 x 690x 1400 mm	820 x 690x 1310 mm	
Net weight	90 kg	123 kg	152 kg	
Packaging dimension	850 x 710 x 780 mm	850 x 710 x 1420 mm	840 x 710 x 1330 mm	
Gross weight	95 kg	135 kg	160 kg	
Cat N°	W000120430	W000120431	W000120454	
All WELDRY ovens are supplied with 2 m long				

with 2 m long cable

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Ovens / Quivers

WELDRY CW

Re-baking ovens for MMA electrodes

This oven is used for electrode re-baking treatment, heating the electrodes between 350 °C and 420 °C for a fixed time. In this way the moisture is removed and a good quality welding without hydrogen intrusion is guaranteed.

Equipped with a digital control panel and two adjustable thermoregulators for air and heating elements protection, positioned in front of the oven, allows to set both drying and keeping cycles. CAUTION: before use, carefully read and understand the safety datasheet available on www.weldline-alw.com

On request: other models (with fan ventilation system)

WEL







Technical data	WELDRY CW3	WELDRY CW6	WELDRY CW9	
Shelves number	3	6	9	
Capacity (number of electrodes)	4 500 el. Ø 3.25 mm	9 000 el. Ø 3.25 mm	13 500 el. Ø 3.25 mm	
Capacity	203 kg	404 kg	608 kg	
Temperature regulation thermostat		up to 500 °C		
Number of resistance	3	6	9	
Power	4.6 kW	9.1 kW	13.6 kW	
Power supply	Three-phase 220 V / 380 V - 50/60 Hz			
Internal size	560 x 740 x 560 mm	560 x 740 x 980 mm	560 x 740 x 1430 mm	
External size	800 x 880x 1030 mm	800 x 880x 1480 mm	800 x 880x 1880 mm	
Net weight	140 kg	200 kg	266 kg	
Packaging dimension	820 x 900 x 1050 mm	820 x 900 x 1500 mm	820 x 900 x 1900 mm	
Gross weight	150 kg	215 kg	280 kg	
Cat N° All WELDRY ovens are supplied	W000120466	W000120467	W000120468	
ovens are surry with 2 m long cable				



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Ovens / Quivers



WELDRY FW

Hopper ovens for flux

This model of oven is used for re-baking submerged arc welding fluxes, heating the flux between 350 °C and 420 °C for a fixed time. The inside tank is stainless steel made to prevent from the risk of pollution.

The resistances are positioned inside the hopper for a direct contact to flux in order to obtain an optimal heating.

The built-in digital control equipment with double thermoregulator for air and resistances protection avoids the flux being damaged and allows to set both drying and keeping cycles.



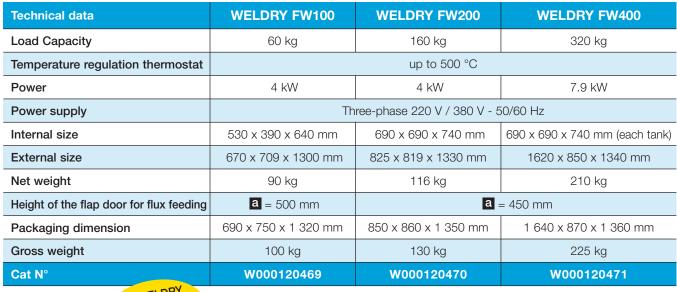


CAUTION: before use, carefully read and understand the safety datasheet available on www.weldline-alw.com

On request: other models with one or two hoppers - with single or double digital control equipment)

а

FW400



All WELDRY ovens are supplied with 2 m long cable

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WELDING TOOLS AND ACCESSORIES 4-TIG welding



- Tungsten electrodes 76 to 77

For: clamps, connectors, cables, hammers, ceramic backings and others see chapter 5 "**Other arc welding**"





Tungsten electrodes

A complete range of tungsten electrodes:

- Pure tungsten,
- Tungsten + cerium,
- Tungsten + lanthanum.
- Tungsten + rare earths⁽¹⁾.



CAUTION: before use, carefully read and understand the safety datasheet available on www.weldline-alw.com

Choice criteria

	Me	etal				Thermal
Туре	Light Alloys	Steel & Stainless steel	Arc stability	Striking	Lasting	resistance
WP Pure tungsten	*		**	*	*	*
WC 20 Cerium 2%		*	**	*	**	**
WL 20 Lanthanum 2%	*	*	**	***	***	***
WS 20 Rare earths (1) 2%	*	*	**	***	***	***

*** Excellent - ** Good - * Average

(1) Rare earths = any of the abundant metallic elements, including scandium (atomic number 21), yttrium (39), and the 15 elements from 57 to 71 (lanthanide series include lanthanum and cerium) in the Mendeleyev classification.

Since september 2014 Air Liquide Welding stopped to propose thorium electrodes

Benefits of Lanthanum Tungsten electrodes

Main criteria to select a tungsten electrode are: arc striking, arc stability and life duration.

To achieve this criteria we add oxides to tungsten, traditionally this was Thorium oxide.

We also know that under certain conditions (for example sharpening) the thorium dust contains radioactive elements.

Even though the radioactive element is very low and well below considered danger levels, producers are constantly trying to replace these thorium oxides with oxides that do not contain radioactive elements.

Lanthanum is the best electrode if you consider the following:

- Possibility to use with both alternative and continuous current
- Better arc striking than all the other types of tungsten electrodes
- Better arc stability due to the lower deformation of the electrode tip
- Longer life duration

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No radioactivity at all.

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OP THOP



Tungsten electrodes

WP - Pure tungsten Light alloy (green tip)

4.0

See the batch number on the tungsten electrode packaging and consult conformity certificate on www.weldline-alw.com

Ømm	150 mm length	175 mm length	
9 mm	Cat N°		
1.0	W000010009	-	
1.6	W000010010	W000010375	
2.0	W000010011	W000010376	
2.4	W000010012	W000010377	
3.0	W000010013	-	
3.2	W000010014	W000010378	
4.0	W000010015	W000335152	

WC 20 - Cerium 2% Steel and stainless steel (grey tip)

Ømm	150 mm length	175 mm length	
9 1111	Cat N°		
1.0	W000010022	-	
1.6	W000010023	W000335153	
2.0	W000010024	W000010381	
2.4	W000010025	W000335154	
3.0	W000010026	-	
3.2	W000335150	W000335157	
4.0	W000010028	W000335155	

WL 20 - Lanthanum 2% Light alloy (using AC current), steel and stainless steel (using DC current) (blue tip)					
Ømm	75 mm length 150 mm length 175 mm length				
9 mm	Cat N°				
1.0	W000011144	W000010373			
1.6	W000011145	W000010016	W000010385		
2.0	-	W000010017	W000010386		
2.4	W000011146	W000010018	W000010387		
3.0	-	W000010019	-		
3.2	-	W000010020	W000010388		
-					

W000010021

WS 20 – Rare earths 2%
Light alloy (using AC current), steel and
stainless steel (using DC current) (turquoise ti

Ø mm	175 mm length
	Cat N°
1.0	W000335166
1.6	W000335167
2.0	W000335168
2.4	W000335169
3.0	W000335170
3.2	W000335171
4.0	W000335172



2006-528

Recommended welding intensities

Electrode diameter	Direct current	Alternating current	
Electrode diameter	Tungsten with oxide addition	Pure tungsten	Tungsten with oxide addition
1.0 mm	10 A to 70 A	15 A to 55 A	15 A to 70 A
1.6 mm	20 A to 100 A	45 A to 90 A	60 A to 125 A
2.0 mm	50 A to 140 A	65 A to 125 A	85 A to 160 A
2.4 mm	70 A to 170 A	80 A to 140 A	120 A to 210 A
3.0 mm	100 A to 210 A	140 A to 180 A	140 A to 230 A
3.2 mm	130 A to 250 A	150 A to 190 A	150 A to 250 A
4.0 mm	150 A to 350 A	180 A to 260 A	240 A to 350 A

W000010389

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Miscellaneous



TIG torch stand



Simple stand with magnetic base to keep your work place clean.

TIG POINT

Chemical sharpening of tungsten electrodes

Instructions for use:

- Take the electrode out of the torch of 15 mm.
- . Use the welding current to warm the electrode to white.
- Dip the electrode in the product while rotating the electrode.
- · Make sure that the result is satisfactory.
- Carefully close the pot.

Cat N°: W000011101

OPTICLEAN II

New inverter-technology installation for cleaning, polishing and marking of stainless steel. See page 100

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TIG SHARP

Portable electric tool for tungsten electrodes sharpening

Characteristics:

- All you need to sharpen your tungsten electrodes (all ranges) delivered in a practical metal case:
- Sharpening machine
- Clamp to lock the machine on a bench
- Standard blue head for the electrodes diameter 1.6 / 2.0 / 2.4 / 3.2 mm
- Nozzle connectable on a vacuum cleaner for extraction of tungsten dusts
- Electrode holder to clamp TIG electrodes
- Tools to assemble and dismantle
- For an accurate sharpening:
- Choose the electrode diameter
- Select the grinding angle (10° to 70°)
- Start the machine
- Insert the electrode and turn it slowly

• An incredible result:

- The grind is perfect
- The grinding angle is very precise
- Longitudinal sharpening,
- precise and symmetric angle.

Technical characteristics:

Voltage:	220-230 volts
Frequency:	50 - 60 Hz
Power:	400 W
Amperage:	1.8 A
Disk speed:	30.000 rpm
Weight:	1.85 kg

Warranty: 2 years.

Conform to EU standards

Other products of the range:

- Red head: (for tungsten electrodes Ø 1.0 / 4.0 / 4.8 / 6.0 mm)
- Spare blue head: (for tungsten electrodes Ø 1.6 / 2.0 / 2.4 / 3.2 mm)
- · Spare diamond disk:

Cat N°: W000011037 Cat N°: W000011038 Cat N°: W000011036

This equipment

has to be connected

to a vacuum extraction

for dusts

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PROFESSIONAL WELDING PRODUCTS BY

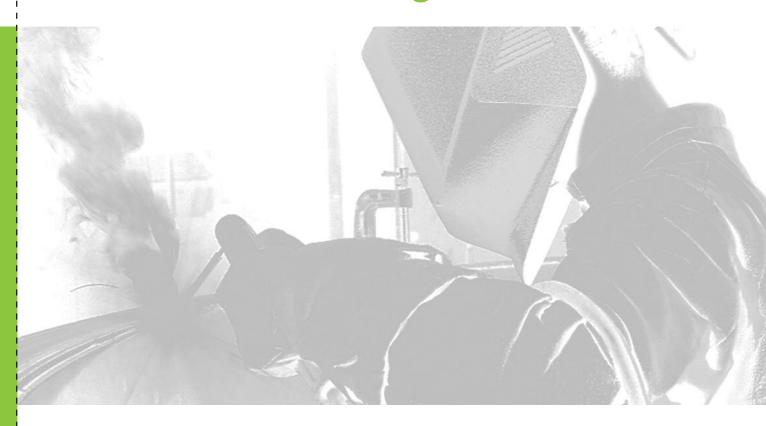


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welding tools and accessories 5 - Other arc welding



•	Cables and connectors	80 to	81
•	Clamps	82 to	83
•	Magnetic ground clamps	84 to	85
•	Hammers / brushes		86
•	Miscellaneous		87





The different types of cable

• Primary cables:

Three core for single phase or four core for three phase requirement.



The current indication is the maximum accepted to be conform to the 287 IEC recommendation.



Secondary cables:

Standard:	Standard:
H01N2-E	H01N2-D
extra flexible	flexible

A single copper core between the power source and the clamp as well as between the power source and the electrode holder. The current indication is the maximum accepted to be conform to the 287 IEC recommendation.

For length over 10 meters, the section has to be increased.

For secondary cables, the European directive (2006/95/EC-low voltage directive) imposes the conformity to one of these two standards. It means that, for safety reasons (resistance to welding hot projections), PVC cables must not be used as welding cables, because they do not meet the standards' requirements.

Reference documents:

- H07RN-F standard for primary cables
- H01N2-E and H01N2-D standards for secondary cables
- Harmonized standard CENELEC HD 516 S2: 1997 / HD 22.6
- § 4.4.5 Document change through amendment A1: 2003
- Communication in the framework (01/02/2005) of the low voltage directive

Tel.: + 33 134 213 333 - Web: www.weldline-alw.com

Cables and connectors



Primary cables H07RN-F

Ø :	A maxi	Cat N° Linear meter
3 x 1.5 mm ²	23 A	W000010098
3 x 2.5 mm ²	32 A	W000010099
4 x 2.5 mm ²	29 A	W000010100
4 x 4 mm ²	38 A	W000010101
4 x 6 mm ²	50 A	W000010102
4 x 10 mm ²	68 A	W000010103
4 x 16 mm ²	92 A	W000010104
4 x 25 mm ²	122 A	W000010105
4 x 35 mm ²	150 A	W000010106

Secondary cables

H01N2-E (extra flexible)

Ø:	A maxi	Cat N° Linear meter
16 mm ²	130 A	W000010137
25 mm ²	172 A	W000010138
35 mm ²	216 A	W000010139
50 mm ²	273 A	W000010140
70 mm ²	340 A	W000010141
95 mm ²	412 A	W000010142
120 mm ²	480 A	W000010143

H01N2-D (flexible)

Ø: mm²	A maxi	Cat N° Coil (50 m)	Cat N° Linear meter
16 mm ²	130 A	W000260274	W000260272
25 mm ²	172 A	W000260275	W000260273
35 mm ²	216 A	W000260276	W000260271
50 mm ²	273 A	W000260277	W000260270
70 mm ²	340 A	W000260278	W000260269
95 mm ²	412 A	W000260279	W000260268

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Push and twist design



Description	Ø: mm²	A maxi	Cat N° Linear meter
	10-25 mm ²	200 A	W000010559
Male	35-50 mm ²	400 A	W000010560
	70-95 mm ²	600 A	W000010561
	10-25 mm ²	200 A	W000010562
Female	35-50 mm ²	400 A	W000010563
	70-95 mm ²	600 A	W000010564

Cable lugs



2007-755

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OTHER ARC WELDING

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Clamps





The choice of a clamp follows several criteria

- It firstly depends on the maximum amperage you are using.
- Then, the kind of contact is important. For light duty or normal use, steel clamps **HIPPO** type, or brass clamps **CROCODILE** type are perfect. For heavy duty or intensive use, you can choose **MUSCLOR, DRAGON** or **SERRE-JOINT** types.
- Lastly the **MAGNETIC** type is ideal for large component parts and the **ROTARY** for heavy use where the cable turns around the clamp.



Choice criteria		Maximum amperage (A)	Jaw opening (mm)
HIPPO 200		200	38
HIPPO 400	2004-634	400	50
HIPPO 600	N.	600	50
CROCODILE 300	2007-756	300	38
CROCODILE 600	Loo -	600	38

Name	Cat N°	A (35%)	Ø cable (mm²)	Weight (g)	Customer's benefit
HIPPO 200	W000010579	200	25	208	
HIPPO 400	W000010580	400	70	362	Economical steel clamps.
HIPPO 600	W000010597	600	70	376	
CROCODILE 300	W000010577	300	50	405	Brass clamps. Brass jaws.
CROCODILE 600	W000010578	600	95	634	Very good contact surface.

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Clamps for bulky parts

Choice criteria		Maximum amperage (A)	Jaw opening (mm)
MAGNETIC 500	5004-64.4	500	N/A
MAGNETIC 600	20	600	N/A
ROTARY 800	209-295	800	82
ECR 1500-1	2014-541	1500	N/A

Name	Cat N°	A (35%)	Ø cable (mm²)	Weight (g)	Customer's benefit
MAGNETIC 500	W000010553	500	70	815	Large surface contact. Can be placed close to the welding position
MAGNETIC 600	W000010554	600	95	1722	insuring good electrical contact.
ROTARY 800	W000010555	800	2 x 95	3319	Brass clamps. Brass jaws.
ECR 1500-1	W000374086	1500 (100 %)	-	2614	Rotating clamps for heavy duty works in submerged arc welding

Clamps for heavy duty use

Choice criteria		Maximum amperage (A)	Jaw opening (mm)
MUSCLOR 300	2004-538	300	38
MUSCLOR 600	50	500	38
SERRE-JOINT 500		500	60
SERRE-JOINT 800	5014-560	800	75
DRAGON 600	2004-640	600	38

Name	Cat N°	A (35%)	Ø cable (mm²)	Weight (g)	Customer's benefit
MUSCLOR 300	W000010583	300	50	480	Heavy duty brass clamps, powerful
MUSCLOR 600	W000010584	500	95	762	jaws giving excellent grip.
SERRE-JOINT 500	W000010987	500	95	744	Cable fixed with brass sleeve. Improved grip through clamp tightening capacity.
SERRE-JOINT 800	W000010988	800	95	1187	Cable fixed with brass sleeve. Improved grip through clamp tightening capacity. 3 positions of brass guide.
DRAGON 600	W000010582	600	95	816	Brass jaws, rubber sheath cable protection. Screw tightening giving excellent grip.

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MAGSWITCH

Magnetic ground clamps and positioners

Productivity in time saving with faster set ups, convenience of no hassle use, and safety advantages of using your hands less and less to handle and position steel cannot be ignored.

From the point you receive steel in, to how you move it through your plant, to how you fabricate it, there is a MAGSWITCH tool that will improve safety and productivity. MAGSWITCH is simply a more productive way to do the job. As you look at the products, consider these core common features of each tool:

- Complete on/off control.
- Precise placement/no fighting magnets.
- Super strong does the big work.
- Holds strong on thin steel.

MAGSWITCH is indeed technology that "changes the way things are done".

Name	Cat Nr		Dimension (mm)	I	Weight (kg)	Hold on thick	Welding current	Feature & benefit
		н	W	D	(),	steel (kg)	(A)	
1 Magnetic ground clamp 300	W000373781	155	104	67	0,3	40	300 A	Quickly
2 Magnetic ground clamp 600	W000373782	180	155	77	0,8	89	600 A	set up
3 Mini Multi Angle	W000373783	76	76	32	0,18	40	N/A	Incredible
4 Mini Multi Angle/ 300A ground	W000373784	95	89	44	0,36	67	300 A	strong
5 Muti Angle 400 Mag-Vise	W000373785	221	193	81	1,13	178	N/A	Super strong hold all slides
6 Multi Angle 1000 Mag-Vise	W000373786	160	200	125	4,25	446	N/A	
7 Mag Square 150	W000373787	169	96	53	0,3	67	N/A	Positioning
8 Mag Square 600	W000373788	215	190	80	1,5	268	N/A	incredible strong
9 Pivot Angle 200	W000373789	250	180	65	1,72	90	N/A	From 22 to 270 degrees
10 Hand Lifter 60 m Manual	W000373790	260	180	100	0,64	27	N/A	For sheet dragging or small steel handing works
11 Hand Lifter 60 CE, Cordless electric	W000373791	254	178	102	1,45	27	N/A	For removing parts from cutting tables

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Magnetic ground clamps













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OTHER ARC WELDING

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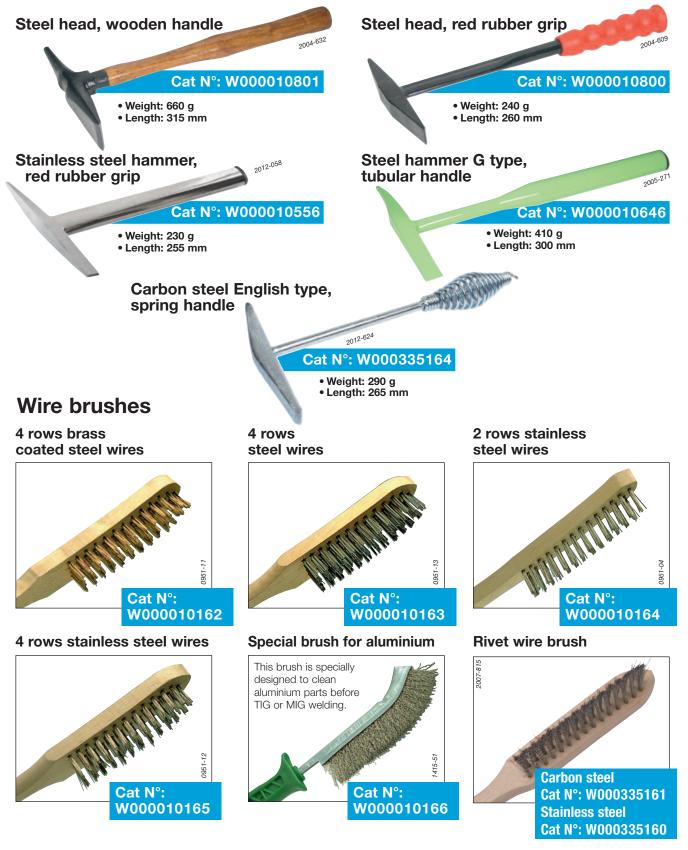
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Hammers / brushes

Chipping hammers

The choice of a hammer depends on the kind of steel you are working with (carbon or stainless steel) and design, for example wooden handle or not.



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Miscellaneous

Warranty:

WELDLINE

5 OTHER ARC WELDING

MAGLITE® Blister packed

Dister packed	10 years			S-CIM-	
Name	AAA	AA	2D	3D	4D
Colour	Black	Black	Black	Black	Black
Composition	Torch, pen style, 2 batteries LR3	Torch, black nylon case, 2 batteries LR6	Torch	Torch	Torch
Weight	49 g	106 g	421 g	506 g	562 g
Diameter	13 mm	18 mm	-	-	-
Length	127 mm	145 mm	254 mm	307 mm	369 mm
Battery (type)	2 LR3	2 LR6	2 LR20	3 LR20	4 LR20
Cat N°	W000211966	W000211967	W000211968	W000211969	W000211970

Pack range





- Nickel-cadmium battery (charger included)
- Rechargeable up to 1000 times: the most powerful torch



Spare parts for MAGLI	Cat N°	
Designation	Bulbs	W000211654
Designation	Battery	W000211980
Spare bulbs		Cat N°
	AAA	W000211653
	AA	W000211972
Designation	2D	W000211973
	3D	W000211974
	4D	W000211975

Designation	Cat N°
Solitaire	W000211978
AAA	W000211977
AA	W000211976



Welding gauge

- Accurate mesure of the thickness of the welding beads, flat as well as angles of 90°.
- Capacity of 20 mm with double vernier of 1/10 mm.
- 4 bevel control angles: 90° - 80° - 70° - 60°.
- Delivered in a leather case.

Cat N°: W000011041



Temperature control stick

- Easy to use surface indicator
- •±1% accuracy

2005-270

Tempilstik	Designation and temperature	Per pack of 12 pieces
Temperature Indicator Por Researing Work Contest	100 (101 °C - 213 °F)	W000010156
Tangerature and Handradi ef Other Applications	120 (121 °C - 250 °F)	W000011042
Catasean-d Nething Polint Acrosoft Upper Fis	150 (149 °C - 300 °F)	W000010157
Excent roted Groupprature Boling	177 (177 °C - 350 °F)	W000011045
Biguisterner Rapidly Makes Doctive Contine Copting	200 (198 °C - 388 °F)	W000010158
Non-vorkisi IIV Projection Line / Janone	232 (232 °C - 450 °F)	W000011044
Exercise to ADD Scender-in	250 (253 °C - 488 °F)	W000010159
Tempil	300 (302 °C - 575 °F)	W000010160
1115194	350 (343 °C - 650 °F)	W000010161
175 1 110194 79 0 #1919 #16 90 #1919 #1919	370 (371 °C - 700 °F)	W000011043

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Accessories



MIG pliers (original FIX®)



NEW

• Cut the wire

Clean the nozzles

• Unscrew the tips

Markers

• Unscrew the nozzles

MIG torch stand



Simple stand with magnetic base to keep your work place clean.



- Designed to measure gas flow at the front of MIG/MAG torch
- Maximum flowrate: 20 l/min (Ar, CO2 or mixed gas)
- Accuracy +- 10%
- Unbreakable

Desimution		Decemietium	
Designation	Cat N°	Description	
Paint Marker White	W000383103	The Valve Action is a fast-drying liquid paint marker,	
Paint Marker Yellow	W000383104	that provides long-lasting, wear- and weather-resistant marks, that are safe for almost any surface.	
Paint Marker Red	W000383105	Most versatile liquid paint marker in the world, the xylene-free paint reduces user health risks.	
Paint Marker Blue	W000383106		
Paint Marker Green	W000383107	Markal Dailet Action	
Paint Marker Black	W000383108	AND A REAL PROPERTY AND	
Paint Marker Orange	W000383109		
Paint Tube White	W000383110	Markal Stylmark is a metal-ball tip marker to mark most surfaces. The aluminum squeeze	
Paint Tube Yellow	W000383111	tube and thick paint makes it suitable for rough, vertical and overhead surfaces with	
Paint Tube Red	W000383112	excellent adhesion on oily and wet surfaces. Xylene-free paint reduces user health risks	
Paintstik White	W000383113	Quik Stik is a smooth-marking solid paint crayon that dries quickly to leave a bold, permanent mark on most surfaces. The durable plastic twist-up holder prevents	
Paintstik Yellow	W000383114	breakage. Keep hands, clothing, and toolboxes clean	
Paintstik Red	W000383115	with the industry's largest twist-up solid paint marker.	
Welding Chalk	W000383116	The soapstone welding crayon is resistant to heat up to 2000° C (3630° F) and will not contaminate welds.	



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PROFESSIONAL WELDING PRODUCTS BY





welding tools and accessories 6 - Flame



•	Hoses	9	0
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- Automatic roller for oxygas hoses 90





Hoses

EN ISO 3821

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Gas	Ø (mm)	Maximum pressure (bar)	Coil length (m)	Cat N°
Single hoses				
Acetylene	6.3 x 12	10	5	W000010055
Oxygen	6.3 x 12	10	5	W000010056
Acetylene	6.3 x 12	10	10	W000010081
Oxygen	6.3 x 12	10	10	W000010057
Acetylene	6.3 x 12	10	20	W000010058
Oxygen	6.3 x 12	10	20	W000010059
Acetylene	6.3 x 12	10	40	W000010060
Oxygen	6.3 x 12	10	40	W000010061
LPG*	6.3 x 12	10	20	W000010052
LPG*	6.3 x 12	10	40	W000010062
Acetylene	10 x 16	20	10	W000010064
Oxygen	10 x 16	20	10	W000010065
Acetylene	10 x 16	20	20	W000010066
Oxygen	10 x 16	20	20	W000010067
Acetylene	10 x 16	20	40	W000010068
Oxygen	10 x 16	20	40	W000010069
LPG	10 x 16	20	20	W000010053
LPG/Acetylene*	10 x 16	20	40	W000010071
Oxygen	8 x 14	20	50	W000010079
Acetylene	8 x 14	20	50	W000010080
Argon	6.3 x 12	10	40	W000010072
Argon	10 x 16	20	40	W000010073
Twin hoses				

TWIN (Oxygen - Acetylene)	6.3 x 12	10	20	W000010077
TWIN (Oxygen - Acetylene)	6.3 x 12	10	40	W000010063
TWIN (Oxygen - Acetylene)	8 x 14	20	50	W000010078
TWIN (Oxygen - Acetylene)	10 x 16	20	20	W000010054
TWIN (Oxygen - LPG)*	10 x 16	20	40	W000010076





THE DATE PRINTED ON THE HOSE IS THE MANUFACTURING DATE

* Propylene excluded

Automatic roller for oxygas hoses

TUBEREEL

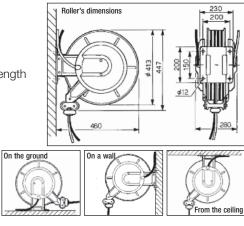


Automatic roller for twin hoses diameter 8 or 10 mm.

- Allows the operator to choose the hose length suitable to his application
- Maximum length for inside diameter 8 mm: 20 m
- Maximum length for inside diameter 10 mm: 15 m
- Provided without hoses

Cat N°: W000260575

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Quick action couplings

QUICKMATIC

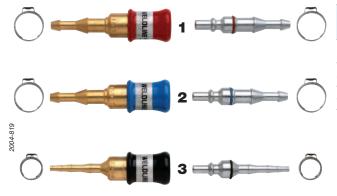
Quick action couplings with auto-close

These couplings are available to fit for hoses or directly onto a regulator outlet.

Providing a quick release coupling, the female side is always placed at the source side of the flow.

Opening during use is possible. Closing once disconnected. Complies with the ISO 7289 - EN 561 standards.

Hose connection



QUICKMATIC	Ø hoses (mm)	Cat N° female coupling	Cat N° male coupling
1 - fuel gases	6 and 10	W000011002	W000011005
2 - oxygen	6 and 10	W000011001	W000011004
3 - neutral gases (argon)	4	W000011003	W000011006



Regulator connection



QUICKMATIC	Thread	Cat N° female coupling	Cat N° male coupling	Ø hoses (mm)
4 - fuel gases	M16x150L	W000011008	W000011005	6 and 10
- Tuel gases	3/8"L	W000011011	W000011003	0 and 10
	M16x150R	W000011007	7	
5 - oxygen	3/8"R	W000011010	W000011004	6 and 10
	1/4"R	W000011009		
6 - neutral gases (argon)	M12x100R	W000011012	W000011006	4

Blowpipe or torch connection



fuel gases	F16x150 L	W000011014	male coupling
oxygen	F16x150 R	W000011013	male coupling

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AIR LIQUIDE



FLAME

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Cutting nozzles and other flame



G1 cutting nozzles and IC cutting nozzles

G1 profile	Gauge	Cutting	IC profile
Acetylene	(mm)	thickness (mm)	Acetylene
	1.		3327-033
l.	10		0327
W000262059	7/10	3-10	W000262089
W000262060	10/10	10-25	W000262091
W000262061	12/10	25-50	W000262093
W000262062	16/10	50-80	W000262094
W000262063	20/10	80-120	W000262095
W000262064	25/10	120-200	W000262096
W000262065	30/10	200-300	W000262097
			1
			327-03
			ö
Propane / Tetren / Natural gas			Propane / Tetren / Natural gas
W000262066	7/10	3-10	W000262098
W000262067	10/10	10-25	W000262099
W000262068	12/10	25-50	W000262100
W000262069	16/10	50-80	W000262101
W000262070	20/10	80-120	W000262102
W000262071	25/10	120-200	W000262105
W000262072	30/10	200-300	W000262106

PROTECFLAM

Heat shield protection for walls and floors during gas welding, brazing or soldering.

PROTECFLAM Single use 200 x 250 mm

Cat N°: W000271449

Blister pack of 3 shields



fumes release



Very flexible (memory effect) Long life duration Both sides usable 200 x 250 mm

Cat N°: W000276078

Pack of 20 shields

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Used to clean welding and cutting nozzles to restore nozzle performance. Contains a range of round needle files in a metal carry case.

Spark lighter



Traditional tool with five renewal flints.



Gun model with ten renewal flints.

Inspection mirrors

Mirror with magnetic stand



• Circular telescopic mirror



For all angle viewing. Fast and accurate visual inspection of hidden areas with an almost limitless number of positions.

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welding tools and accessories 7 - Liquids and sprays



Anti-spatters	94 to 95
Anti-corrosion	
Sharpening of tungsten electrodes	
Heat protection	
Cracks detection	96 to 97
Cooling liquid for torches	
Leakage control	
Stainless steel treatment	
 Cleaning, polishing and marking of stainless steels 	100



Anti-spatters REACH



CERASKIN

Welding anti-spatters spray with ceramic coating

CERASKIN is a rapid drying ceramic coating spray providing exceptional protection of welding equipment and welded parts from damage caused by spatters.

Product features:

· An exceptionally fast drying, long lasting and durable ceramic coating formulated to withstand the most demanding requirements in the professional welding environment.



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WEI DUIN

SPRAYMIG H20

- The ceramic base makes a barrier and prevents weld spatters adhering to welding equipment and welded parts.
- CERASKIN grants 8 consecutive hours welding work (1 working day), without any further adds of product.
- Volume: 400 ml (net) 520 ml (nominal).

Cat N°: W000277679

SPRAYMIG H₂O

Anti-spatters spray and liquid

- Water based and odourless
- No influence on porosity and cold cracks • No influence of the content of diffusible hydrogen in the weld metal
- Solvent and silicone free
- Biodegradable
- · Allows parts to be lacquered
- · Easily washed off parts

Description:

- SPRAYMIG H₂O silicone-free water-based anti-spatters based on highly efficient water soluble substances.
- It prevents spatters from sticking to nozzles, tips, and work pieces robots, and extends nozzle life considerably.
- It permits rapid changing and cleaning of the nozzles.
- Painting, galvanizing, lacquering of parts is possible.
- A preliminary test is recommended.
- Very low consumption for a high effectiveness.

Physical and chemical properties

- Aspect: liquid uncoloured clear.
- Density at 20 °C: 1.00.
- Pure pH: 7.
- Volume: Spray: 400 ml (net), 520 ml (nominal) Drum: 20 liters.
- Propellant gas: dimethylether.
- Base: water based emulsion of organic substances.

Spray (400 ml) - Cat N°: W000010001

Drum (20 liters) - Cat N°: W000011074

CAUTION: before use, carefully read and understand the safety datasheet available on www.weldline-alw.com

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SPRAYMIG SIB

Anti-spatters spray

- Silicone based
- . Do not for use on any parts that are about to be painted
- Use on cold parts
- Use on nozzles only and outside contact tip

Technical data:

- SPRAYMIG SIB is a preventive maintenance product for MIG/MAG torches
- To be used on cold parts only, do not use on threads or inside contact tips (as the product is electrically insulating).
- Volume: 400 ml (net) 520 ml (nominal).
- Propellant gas: aliphatic hydrocarbons
- Base: silicone and isoparaffinic solvent.

Cat N°: W000011093

SPRAYMIG SVB

Anti-spatters spray

- Silicone free
- Compatible with paint
- Use on cold parts
- Use on nozzles only and outside contact tip

Technical data:

- SPRAYMIG SVB is an anti-spatters silicone free spray for welding applications.
- Volume: 400 ml (net) 520 ml (nominal).
- Propellant gas: aliphatic hydrocarbons
- Base: biodegradable synthetic polymers.

Cat N°: W000011092

SPRAYMIG SVD

Anti-spatters spray

- Silicone free
- · Compatible with paint
- · Use on cold parts
- · Use on nozzles only and outside contact tip
- Dichloromethane solvent.

Technical data:

- SPRAYMIG SVD is an anti-spatters silicone free spray for welding applications
- Volume: 300 ml (net) 520 ml (nominal)
- Propellant gas: aliphatic hydrocarbons
- Base: Synthetic oil not siliconic.
- Dichloromethane solvent.

Cat N°: W000271574

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3 WELDLINE SPRAYMIG SVE



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SPRAYMIG SVD

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WELDLI

SPRAYMIG SIE

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Anti-spatters



NETMIG

Anti-spatters dip

- Protects nozzles and contact tips from spatters by immersion.
- Silicone and solvent free.
- Odourless.

Cat N°: W000011071



REACH

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-600

Anti-corrosion

GALVASPRAY

- Protection of welded joints
- Permits welded parts to be lacquered

Technical data:

- GALVASPRAY sprays a zinc protective finish.
- High resistance to oxidation and corrosion (more than 80 hours in salty fog)
- Quick drying (about 5 minutes) and no dripping.
- Volume: 400 ml (net) 520 ml (nominal).
- Propellant gas: propane/butane.
- Base: zinc powder in a vegetal resin.

Technical data:

- Prevents spatters adhering:
- To torch nozzles and contact tips,
 To positioners and jaws of welding lathes.
- Does not clog threads or apertures.
- Does not cause porosity. Silicone and solvent free. Odourless.
- Base: waxes and oil.
- Volume: 300 gr.

Instructions for use

- Clean and degrease the area to be treated.
- Shake the can before use at least for 1 minute.
- Spray at 25 cm distance from the piece by short and regular passes.



Cat N°: W000011101

Cat N°: W000011094

Sharpening of tungsten electrodes

TIG POINT

Chemical sharpening of tungsten electrodes

Instruction for use:

- Pull the electrode out from the torch of 15 mm.
- Use the welding current to warm the electrode to white.
- Dip the electrode in the product while rotating the electrode.
- Make sure that the result is satisfactory.
- Carefully close the pot.

Heat protection

THERMISHIELD

Heat shield gel

Description:

- It is designed to stop heat from travelling through most metals during welding, brazing or soldering.
- It prevents from distortion of metals and even plastics caused by the heat of a welding torch.
- Volume: 500 ml

Tel.: + 33 134 213 333 - Web: www.weldline-alw.com

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Cat N°: W000274839

Instructions for use:

- Shake well before use and spray the product over the surface to be protected.
- Use in well ventilated areas only.

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-600

95

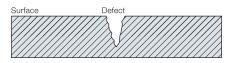
LIQUIDS AND SPRAYS

Cracks detection



FLUXO

This non destructive technique allows the detection of cracks opening on the surface of the plate helping a visual control, due to the cracks becoming visible (30 to 50 μ m).

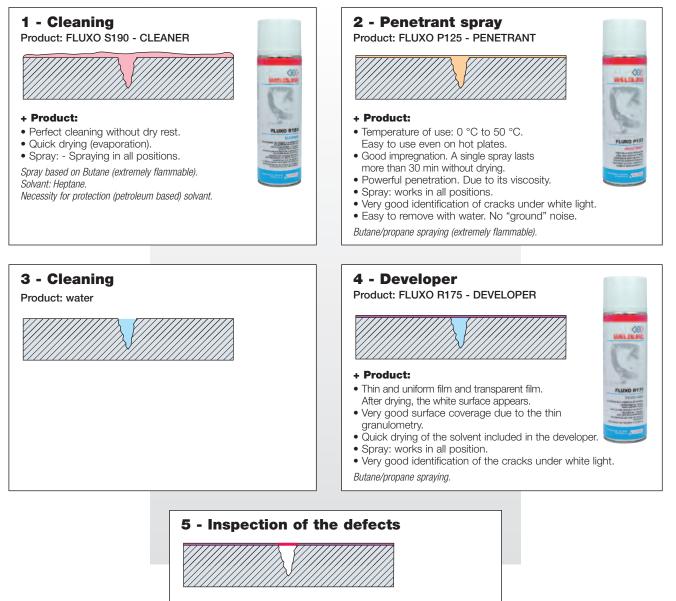


A wide range of materials:

Steel, ceramic, plastic, glass...

Many industries:

- Boilers maker Founders Petrochemical
- Railway Nuclear Shipyard Automotive...



Cracks are visible at the surface of the plates, thanks to clear vivid red indications easily seen by the naked eye (no UV light required).

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WELDU

FLUXO S190

FLUXO S190 - CLEANER

Piece degreasing & cleaning of penetrant excess.

Direction for use:

Spray FLUXO S190 - CLEANER until disappearance of red or purple PENETRANT traces.

- Propellant: Butane / Propane.
- Volume : 500 ml (net) 650 ml (nominal).

FLUXO P125 - PENETRANT

Non destructive testina.

Direction for use:

Be sure the area is clean. Spray at 20 cm FLUXO P125 - PENETRANT for a complete recover of the area. Let it penetrate at least 10 minutes. Rinse with FLUXO S190 - CLEANER. Control with FLUXO R175 - DEVELOPER.

• Propellant: Butane / Propane.

• Volume : 500 ml (net) - 650 ml (nominal).

Cat N° W000374825

FLUXO R175 - DEVELOPER

Detection of cracks and surface faults.

Direction for use:

Be sure that the area is clean and without penetrant last trace. Shake the can until hearing clearly the ball bearing. Spray at 20 cm for an uniform layer without super thickness. Wait a few minutes until obtaining a dry powdery film before examining the surface.

- Propellant: Butane / Propane.
- Volume : 500 ml (net) 650 ml (nominal).

Also available: ARDROX

- ARDROX 9PR5 CLEANER
- ARDROX 9VF2 PENETRANT
- ARDROX NQ1 DEVELOPER Cat N°: W000374532

Cat N°: W000374531

Cat N°: W000374818



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Cat N°: W000374826

Cat N°: W000374827

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FLUXO P12

012-278

CAUTION: before use, carefully read and understand the safety

datasheet available on

www.weldline-alw.com

FLUXO R175

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AIR LIQUIDE

Cooling liquid for torches



FREEZCOOL (red)

FREEZCOOL is a highly elaborated heat carrier. It is formulated with multi metal corrosion inhibitors for a safe use into all types of circuits. Its thermal stability and dielectric properties make a cooling liquid especially suitable for "high tech" systems.

General use:

- Cooling of welding torches
- Cooling of induction furnaces
- Cooling of tack welding systems, plasma flares
- Air conditioning
- Electric generators
- Motorcar industry: engines cooling systems, engines and gearboxes testing benches.
- Cooling of radar systems.

Product benefits:

- \bullet Ensures an anti-freezing protection down to -27 $^{\circ}\mathrm{C}$
- High electrical resistivity
- Non volatile (no product losses)
- Chemically stable, does not polymerize
- Anti-corrosion: contains multi metallic corrosion inhibitors.
- Anti-algae growth
- Non toxic
- Non flammable

Cat N°: W000010167 (9.6 L) Cat N°: W000010168 (20 L)

Controls:

- Freezing point with a refract meter
- pH control
- Iron and copper contents

Physical properties:

- Physical form: red liquid
- Base: monopropylen glycol and water
- Specific gravity: 1.04 at 20 °C
- pH: 7+/-2
- Freezing point: -27 °C
- Resistivity: 105 ohm.cm-1



2004-

Packaging:

FREEZCOOL is delivered in 10 or 20 kilos net weight, polyethylene drums. For any other type of packaging, please contact us.

Caution:

Before use, carefully read and understand the safety datasheet.

CAUTION: before use, carefully read and understand the safety datasheet available on www.weldline-alw.com

Leakage control

BUBBLE

A high-return product for leak detection suitable for all gases except high pressure oxygen > 150 bars.



- Volume: 500 ml (net) 650 ml (nominal)
- Propellant gas: denaturate hydrocarbure
- Base: mixture of foam compounds
- Temperature of application: -10 °C/+130 °C

Cat N°: W000010963



1000 BULLES

A leakage controller suitable for all gases except high pressure oxygen > 150 bars.

- Volume: 400 ml (net) 650 ml (nominal)
- Propellant gas: nitrogen protoxyde
- Base: lauryether natrium sulfate

Cat N°: W000011090



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Stainless steel treatment REACH



Weldline proposes a complete range of products for stainless steels treatment.

There are three essential phases for a good surface treatment:

- 1 Degreasing
- 2 Pickling
- 3 Passivation

The first two are "intermediate phases", which means that they can be repeated in different working stages.

The third, passivation, always represents the final treatment step.



(Degreasing- Liquid)

Degreasing is the essential process before any thermal treatment.

It avoids incidental remains of oil or dust which interact (contamination) with the metal during welding or thermal treatment of stainless steel

It can be repeated in the following phases, in case further thermal processing is required, before the final passivation.

CLEANOX L (liquid) 6 kg

CLEANOX L (liquid) 30 kg

How to use CLEANOX DEGREASER

Dilute the degreaser with 30% to 50% water and allow it to vaporize on the surface to be treated. Leave for a few minutes to allow the product to act and then rinse with clean water. Do not expose the product or treated surface to sunlight or to any atmospheric agents.

Mandatory safety tools **Protection kit**

Working with acid products, the user should use protective clothing carefully. The protection kit includes:

- 10 pairs of acid resistant gloves,
- a pair of closed goggles,
- a facial protection respirator against acid vapours.
- a full chemical protective suit.

Cat. N°: W000267118

Paintbrush

Compatible with acid. Cat. Nº: W000267116



2 PICKLINOX

(Pickling - Product in gel, paste or liquid)

Pickling is the operation that permits, the remove of all oxides after welding, removing the surface layer following a thermal treatment.

It is the most important step in the treatment process.

A welding bead and generally a heated surface, lose their stainless property (Cr < 12%).

For this reason, a pickling operation does not mean only cleaning the welding bead but it restores the stainless steel characteristics.



PICKLINOX G (gel) 2 kg	W000266426	
PICKLINOX G (gel) 10 kg	W000266427	
PICKLINOX P (paste) 2 kg	W000266428	
PICKLINOX P (paste) 10 kg	W000266429	
PICKLINOX L (liquid) 30 kg	W000266422	
How to use PICKLINOX GEL		

Degrease the surface to be treated with the specific CLEANOX product. Then apply a coat of PICKLINOX paste or gel. The exposure time will vary from a few minutes up to 30 minutes depending on the type of steel being welded. At the end of treatment remove the gel or the paste with clean water.

Do not expose the product or treated surface to sunlight or to any atmospheric agents.

3 RESTORINOX (Passivation - Product in gel) This is the final phase of the process, and is absolutely necessary for restoring 2008the stainless property. With passivation is created a "desired oxidation". In fact this working phase restores the chromium layer damaged by heat shortening the spontaneous oxidation time. In this way, the oxide layer which 008-389 protects the surface from external agents is restored. W000266430 RESTORINOX G (gel) 2 kg RESTORINOX G (gel) 10 kg W000266431 W000266424 **RESTORINOX L** (liquid) 30 kg

How to use **RESTORINOX**

First degrease and pickle the part to be treated with CLEANOX and PICKLINOX. Then apply the product. The times required for exposure will vary from 20 minutes up to 60 minutes. At the end of the treatment remove the product with clean water.

Do not expose the product or treated surface to sunlight or to any atmospheric agents.

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W000266425

Cleaning, polishing and marking of stainless steels



OPTICLEAN II



New inverter-technology installation for cleaning, polishing and marking of stainless steel. Use on TIG welds.

Your benefits:

- **AESTHETIC:** no stains on the steel after cleaning.
- ECOLOGICAL: no need to wear gloves or protective masks with the neutral solution. Large outdoor areas are not required: no toxic vapor emissions, no need for water treatment plant.
- ECONOMIC: no passivation after cleaning
- GAIN OF PRODUCTIVITY: no need to dip the pump into the liquid and to interrupt the operation several times.

Improvement of the quickness while increasing current. Efficiency increased with the carbon blush.

OPTICLEAN II	To order
Machine OPTICLEAN II including :	W000382322
Torch	W000275260
Support torch	W000382323
Supporte torch extension	W000382325
Ground cable	W000375139
Torch power cable	W000375141
2,5 mm Allen key	W000382326
Brush	W000382329
Standard graphite insert 90°	W000382571
Narrow graphite insert 90°	W000382572
Tig Bond pad 90°	W000272348
Narrow Tig Bond pad 90°	W000272351
Brill Bomar solution	W000272347
Neutral Bomar solution	W000272038
Neutralizing solution Inox Fit 500 ml	W000274842
Operating manual	-
Optional	To order

Optional	To order
Marking Kit INCLUDING :	W000271936
Stainless steel marking electorlyte 100 ml	W000272041
Erosion marking	W000382573
Graphite marking insert 35 mm	W000272039
Marking felts insert	W000272040

Available sizes for the marking :

100

 $54 \times 32 \text{ mm} / 85 \times 54 \text{ mm} / 128 \times 42,5 \text{ mm} / 170 \times 54 \text{ mm}$ You just have to send your logo with the chosen dimensions.

You can simply order the marking kit and a cliché, providing us with your logo or any other writing: you can mark the product at least 500 times !

CAUTION: before use, carefully read and understand the safety datasheet available on www.weldline-alw.com

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Technical data	OPTICLEAN II
Supply Voltage	230 V / 1Ph
Frequency	50/60 Hz
Capacity	450 W
Electrode Voltage	10/30 V AC/D
Isolation Class	IP 23
Noise level	< 10 dB (A)
Machine weight (empty)	7 kg
Machine dimensions	3 300 x 230 x 240 mm

1 - Cleaning

Place the cleaning solution onto the torch and choose whether you want to use the pad or the brush, which gives better access to angles that are difficult to reach. Rub the weld till its colour becomes clean.

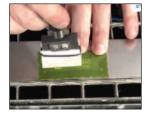
2 - Polishing

Place the polishing solution onto the torch and choose whether you want to use the pad or the brush. Rapidly, as you rub the weld, it will start to shine. Wipe your steel with a cloth rag in order to avoid stains.

3 - Marking

Take the appropriate suitcase containing both marking and eroding electrolytes. Rub the marking felt moistened with the electrolytic solution on the screen printing frame. Your logo is printed on the metal.





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welding tools and accessories 8 - Cutting and grinding disks



• Cutting and grinding disks 102 to 105





Weldline is offering a range of cutting and grinding disks designed for the main applications of industrial customers

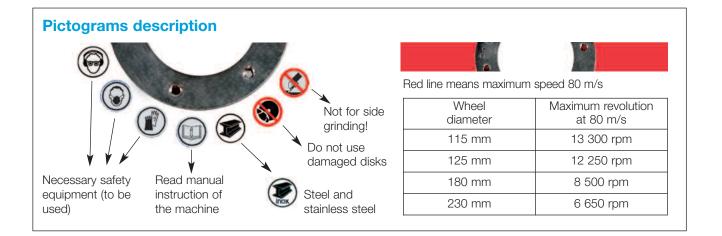
- Two extra thin cutting disks of 1 mm for steel and stainless steel.
- Flat and depressed center, hard cutting disk range for structural steel.
- A range of hard grinding disks for structural steel.
- A range of abrasive flap disks for grinding, finishing and cleaning applications.





When buying such products, always ask for OSA certification.

The guarantee that the product complies with the safety standard and the additional requirements of the Organisation for the Safety of Abrasives



Other dimensions are also available:

Dimensions	Shape	Use	Specification	Unit / box	Catalogue N°
DUCTIFLEX PRO					
100 x 2.5 x 16 mm	Flat	Carbon/steel	1A36S7	25	W000273946
DUCTIFLEX					
100 x 3.5 x 16 mm	Depressed	Carbon/steel	1A36S7	25	W000273945
100 x 6 x 16 mm	Depressed	Carbon/steel	1A36S7	10	W000273947

Specially dedicated to Oil & Gas segments.

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AIR LIQUIDE



DUCTIFLE

CUTTING AND GRINDING DISKS

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2007-111

DUCTIFLEX PRO

Top quality cutting disks for professional use

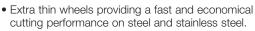
A range of high quality products providing an ideal balance between performance and life duration.

Characteristics:

- Maximum speed 80 m/s
- Diameter 115 to 230 mm
- Thickness 1.0 to 3.2 mm
- Should be used within 3 years from the production date
- Design for steel, except the extra thin disks designed for steel and stainless steel

				MA STATE	
Dimensions	Shape	Use	Specification*	Unit / box	Catalogue N°
115 x 1 x 22 mm	flat	steel/stainless steel	61A 60 S7 BF	50	W000261930
125 x 1 x 22 mm	flat	steel/stainless steel	61A 60 S7 BF	50	W000261931
115 x 1.6 x 22 mm	flat	steel/stainless steel	61A 60 S7 BF	50	W000335001
125 x 1.6 x 22 mm	flat	steel/stainless steel	61A 60 S7 BF	50	W000335002
115 x 2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261932
125 x 2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261933
180 x 2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261934
230 x 2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261935
180 x 2.5 x 22 mm	flat	steel	A 36 S7 BF	25	W000261936
230 x 2.5 x 22 mm	flat	steel	A 36 S7 BF	25	W000261937
115 x 3.2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261938
180 x 3.2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261939
230 x 3.2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261940
115 x 2.5 x 22 mm	depressed	steel	A 36 S7 BF	25	W000261941
115 x 3.2 x 22 mm	depressed	steel	A 36 S7 BF	25	W000335005
125 x 2.5 x 22 mm	depressed	steel	A 36 S7 BF	25	W000261942
125 x 3.2 x 22 mm	depressed	steel	A 36 S7 BF	25	W000335006
180 x 2.5 x 22 mm	depressed	steel	A 36 S7 BF	25	W000261943
230 x 2 x 22 mm	depressed	steel	A 36 S7 BF	25	W000335003
230 x 2.5 x 22 mm	depressed	steel	A 36 S7 BF	25	W000261944
230 x 3.2 x 22 mm	depressed	steel	A 36 S7 BF	25	W000335004





- Extra long product life
- High cutting speed
- Specially efficient on steel bars, pipes, sheets or shaped sections
- No need to eliminate burr after cutting
- Less material waste



Same quality with depressed center

* Explanation of the specification: See next page

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- Hard cutting disks for structural steel.Long life duration
- Iron and structural steel cutting

Recommendations:



Cutting will be faster by using a smaller contact surface between the disk and the work piece

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PROFESSIONAL WELDING PRODUCTS BY





DUCTIFLEX

A grinding range for standard structural steel

Characteristics:

- Steel surface cleaning, deburring, angle and corner dressing
- Very good balance between performance and price, long life product



Dimensions	Shape	Use	Specification	Unit / box	Catalogue N°
115 x 6 x 22 mm	Depressed	Standard steel	A 30 S7 BF	10	W000261945
125 x 6 x 22 mm	Depressed	Standard steel	A 30 S7 BF	10	W000261946
180 x 6 x 22 mm	Depressed	Standard steel	A 30 S7 BF	10	W000261947
230 x 6 x 22 mm	Depressed	Standard steel	A 30 S7 BF	10	W000261948

			Explanat	ion of t	he sp	ecifica	tion					
		Ĺ	Abrasive		X dness S	XX Structure	XX Bond					
Abrasive type A: Regular Aluminium oxi 61A: Mixed Aluminium ox						ast iron						
Grit size												
16 20 22	24	30 30	6 40	46	54	60	70) 80		100	120	150
Coarse Coarse for works without	special precis	ion, to fine fo		edium urface						Fine		
Hardness grade												
E F G	Н		J	K	_	М	Ν	0	Р	Q	R	S
Very soft		Soft				Med	ium			Har	d	
Soft grade are dedicated	to hard mater	als, hard gra	de to softer m	naterials								
Structure												
3 4	5	6	7	8	3	9		10	11	12		13
Closed	al a ca al ca a ca a Ti		ledium				Open	امما		Very o	pen	
Ratio between grain, bor	u anu pore. Ti	ie suiter the	material is the	e more ope	in struc	iure is rec	Uninenc	ueu				
Bond												
	V B BF											
Vitrified bonded Resinoid bonded Glass fibre Resinoid bond are more flexible, for dynamic and forceful use than vitrified bond Glass fibre Glass fibre Glass fibre increase the resistance specialty for heavy usage Glass fibre Glass fibre Glass fibre												

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CUTTING AND GRINDING DISKS

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DUCTIFLAP

Abrasive flap disks

These disks are made by cutting abrasive fabrics, then cutting as flaps and bonding them on a fiberglass or nylon backing plate by an adhesive.

Our DUCTIFLAP disks are based on Zirconia Alumina, specially designed for steel, alloyed steel, non ferrous material; cast iron, wood and plastic.

We use conical disks because it is possible to use them for curve surfaces, for edge grinding as well as lubricious or primed surfaces.

The grits are either 40, 60 or 80. The higher the grit is, the more precise the result is.

The types are 115 x 22 mm and 125 x 22 mm.

Bonding material: synthetic resin bonding phenolic resins.

Backing plate: fiberglass or nylon (plastic).

Filler: kryolits, calcide.

Shape: flat or conical 15%.





			Sh	аре
Dimensions	Grit	Unit/box	15 % conical for fiberglass backing	Flat for nylon backing
	40	10	W000264532	W000273754
115 x 22 mm	60	10	W000264533	W000273759
	80	80 10	W000335007	W000273758
	40	10	W000264535	W000273757
125 x 22 mm	60	10	W000264534	W000273756
	80	10	W000335008	W000273755

Personnal protection: protect your eyes and ears, wear a dust mask, safety gloves, (safety shoes & leather apron are recommended). **Storage:** in dry and well ventilated areas.

Temperature between 18 and 22 °C, relative humidity between 45 and 60%.

The speed of the machine must never exceed the maximum operating speed of the disk: 80 m/s.

The illustrations, descriptions and characteristics are given for information only and do not engage the responsibility of the constructor.





AIR LIQUIDE WELDING FRANCE (ALWF) GENERAL TERMS AND CONDITIONS OF SALE

Article 1: Overview

The General Terms and Conditions of Sale described hereinafter set forth the rights and obligations of ALWF and its customer in connection with the sale of products, processes, systems, solutions and related services for welding and cutting equipment.

All the services offered by ALWF are directed at business customers.

Any order placed with ALWF implies that the customer has read and fully accepted the General Terms and Conditions of Sale.

Under no circumstances whatsoever shall the customer be entitled to claim that it was unaware of the General Terms and Conditions of Sale hereunder and there shall be no derogation therefrom. In the event that the General Terms and Conditions of Sale contradict the customer's general terms and conditions of purchase, ALWF's terms and conditions shall prevail.

The research, documents and any kind of information provided by ALWF, other than publicity leaflets and user instructions, shall remain the property of ALWF and they shall be deemed to be confidential. They shall not be forwarded to third parties or used by the customer for purposes other than the use of the relevant product supplied, without ALWF's written authorization. Our commercial offers shall also be confidential.

Article 2: Order

Orders shall be final once received in writing by ALWF. Any order cancellation on the part of the customer shall be subject to a cancellation fee, which may vary depending on the type, size and status of order. Orders shall not be amended without Supplier's prior consent.

Article 3: Price

The prices of the products being sold shall be those that are current on the date on which the order is placed. For catalogue items that are deliverable when available or within a short time, the prices that apply shall be those at ALWF's current rates, excluding packaging. They shall be expressed in euros and calculated net of VAT. For other items, the prices shall be set in accordance with the Parties' written agreement. For export, unless otherwise stipulated, prices shall be deemed to be EXW. ALWF grants itself the right to amend its rates at any time. However, it undertakes to invoice the items ordered at the prices stated when the order is logged. Recycling costs (collection):

In accordance with Article R 543-172 and following ones of French Environmental Code, ALWF and the customer undertake to pool their resources in order to finance and arrange the disposal of electrics and electronics equipments' waste, in particular the cost of waste processing. ALWF shall invoice the cost of collecting waste and shall show the relevant cost on the invoice. The customer shall be responsible for taking the equipment or used material to the collection points.

Article 4: Delivery

Delivery shall be effected by providing the goods directly to the customer, by sending notice for the customer's attention that the goods are available in the shop or by delivery to the place stated by the customer on the purchase order.

The delivery deadline stated when the order is logged shall be intended for guidance purposes alone, and shall not be guaranteed in any manner whatsoever.

Accordingly, any delay in delivering the products shall not entitle the customer to damages nor shall it entitle it to cancel the order. Any request to extend the delivery deadline stated by the customer shall be subject to ALWF's prior consent and to invoicing for the costs arising therefrom, on the same basis as late-payment interest to be applied to the value of the order, excluding taxes. The customer shall bear the carriage risks in full until delivery. In the event that goods go missing or are damaged in transit, the customer shall express all the necessary reservations on the delivery note when it receives said goods. Said reservations shall also be confirmed in writing by registered letter with acknowledgement of receipt send to the carrier, within three days of the delivery.

A claim for a delivery that does not comply with the order must be made immediately to ALWF and confirmed in writing within eight days of receipt of the goods. If no claim is made, ALWF shall be released from any obligation towards its customer. ALWF may, at its option, carry out partial or global deliveries.

Article 5: Force majeure

ALWF shall not be held liable if its failure to perform any of its obligations described herein or late performance thereof arises from a case of force majeure. In that respect, force majeure shall mean any unforeseeable and irresistible external event within the meaning of Article 1148 of the French Civil Code (Code Civil).

Article 6: Acceptance. Transfer of risks

There shall be no formal acceptance of the catalogue items, except in special cases. The risks relating to the products shall be transferred to the customer on dispatch, save for deliveries abroad: in this case, the transfer of risks shall be linked to the incoterm used by ALWF.

Article 7: Terms and conditions of payment

For export customers, unless otherwise stipulated, invoices for catalogue items shall be payable in cash on delivery, net and without any discount, by bank transfer, under the terms and conditions stipulated in the order or by irrevocable, confirmed letter of credit, under the terms and conditions stipulated in the order. For French customers, pursuant to article L 441-6 of commercial code, the delay agreed by the parties to pay any invoice shall not exceed 45 days from the date of issuance of such invoice. Unless otherwise stipulated, the method of payment will be the bill of exchange on magnetic media. Deferment of the payment date, failure to return the bill on the due date, failure to pay a single bill or invoice shall result in an event of default without need for any formality or formal demand for payment, and it shall render any monies owed to ALWF, even those that are not yet payable, immediately payable. In the event of failure to pay on the due date, the will be automatically subject to a penalty equivalent to the applicable legal interest rate plus 3 points, on the monies owed, without prejudice to the payability of the debt and ALWF's rights of recourse. Besides, a fixed compensation of 40 ε will be borne by the customer for recovery costs. If these charges should be superiors, ALWF could charge a superior compensation for the real amount of ALWF. All payment should be received from the customer legal entity which passed the order.

Article 8: Warranty

The warranty given by ALWF shall apply to all part of manual or automatic equipment. Said warranty shall apply to all parts that are acknowledged to be faulty as a result of a defect in manufacturing, assembling or raw material. The warranty shall cover the repair or replacement of defective parts by ALWF, at its expense. The defective parts that are replaced free of charge shall be the property of ALWF. The warranty shall not apply to wearing parts. Neither shall the warranty apply to improper use, failure to maintain or supervise, negligence, modifications or repair using parts that are not intended for the model, nor to parts that are not manufactured by ALWF. Duration of this contractual warranty is as stated in commercial documentation or on company's web site, and depends on type of product; the warranty period start from the invoice issued by ALWF. ALWF shall not be committed to any other warranty than those stated in this article. No specific customer's requirement shall entail any liability on the part of ALWF. In the absence of specific written stipulations, no guarantee to produce a specific result or in respect of the product's performance shall be given to the customer.

Article 9: ALWF's liability. Damages

ALWF's liability shall be strictly limited to the obligations set forth above. It shall consist solely of granting the customer a contractual warranty, defined in clause no. 8 herein. Under no circumstances whatsoever shall it be liable to compensate the customer, including in respect of non-pecuniary losses or indirect losses, such as loss of earnings, loss of production or loss of use. In the event that ALWF is held liable, the damages owed to the customer shall not exceed the amounts that the customer has paid under the agreement, including all items, within the limits allowed by applicable regulations.

Article 10: Proprietary Rights

All right, title and interest in the intellectual property (including all copyrights, patents, trademarks, trade secrets...) embodied in the products, packaging and documentation, shall belong solely and exclusively to ALWF, and the customer shall have no rights whatsoever in any of the above. Nothing in these Conditions of sale may be construed as a grant of any license or any other right to use any of the Intellectual Property of ALWF for any purpose whatsoever.

Article 11: Retention of title clause

ALWF shall retain title to the products being sold until the price - principal and ancillary costs - has been paid in full. In that respect, if the customer is placed subject to court-ordered administration or liquidation proceedings, ALWF reserves the right to claim the products it has sold and for which it has not received payment in the context of the insolvency proceedings.

Article 12: Code of conduct/ restrictive sales:

Customer undertakes to respect the Air Liquide Code of Conduct available on the following link: www.airliquide.com/en/company/ethics/code-of-conduct.html Dual Use: Customer undertakes to respect the European Trade Policy and Dual-Use Export Regulations (http://ec.europa.eu/trade/import-and-export-rules/export-from-eu/dual-use-controls/index_en.htm). Prohibited parties: Direct or indirect sales are strictly forbidden to the following countries: Iran, Cuba, North Korea, Sudan and Syria. Restrictive measures: The customer is aware that transactions with parties that are published on governments Restricted Parties Lists are prohibited. Any EU, UN or US export, import or payment restrictive measures (such as embargoes, black lists, restricted parties lists) whether foreseeable or not and affecting, directly or indirectly, the Customer, its personnel, its bank, the commercial and financial intermediaries and the End-Users will automatically suspend the fulfillment of the relevant sales contract obligations. This shall be regarded as a force majeure event, allowing ALWF to terminate forthwith the contract at its sole discretion, without any prior notice and without any liability towards the customer. Anti-corruption: The customer undertakes to respect the applicable laws and regulations in performing its obligations particularly regarding anticorruption laws (http://www.airliquide.com/en/company/ethics/anti-corruption-code-of-conduct.html.)

Article 13: Disputes

Any dispute relating to the interpretation and performance hereof shall be governed by French laws. If the dispute cannot be resolved out of court, it will be referred to the Commercial Court (Tribunal de commerce) of Paris.



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A global leader in terms of gas, technology and services for industrial use and the heath sector, Air Liquide operates in 80 countries with more than 50 000 employees and over 2 million clients and patients. Oxygen, nitrogen and hydrogen have been at the heart of the Group's business since it was created in 1902. Air Liquide aims at being a sector leader, with top performance levels on the long term and with a responsible approach.