

8 - Welder protection



- Helmets and handshields..... 8-1 to 8-9
- Goggles and spectacles..... 8-10 to 8-14
- Welding glasses..... 8-15 to 8-16
- Leather clothes..... 8-17 to 8-22
- Gloves..... 8-23 to 8-30
- Cotton clothes..... 8-31 to 8-32
- Shoes..... 8-33 to 8-39

Choice of head protection

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

Electronic helmet allows the welder to be protected immediately and automatically when the welding operation begins. The result is a better efficiency of his job, a better comfort, and at least a better result.

Electronic helmets could be with fixed or variable shades.

The choice is depending of the kind of process.

Handshield 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, spatter's resistance)

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

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

EN 175





CHAMELEON 3

3 new solutions, one new helmet



New design

Improved design and comfort

3 models:

- **CHAMELEON 3 F** : with fixed shade

Cat n°: W 000 261 351

- **CHAMELEON 3 V** : variable shade specially designed for MMA, MIG/MAG

Cat n°: W 000 261 352

- **CHAMELEON 3 V+ :** Variable shade covering all processes especially TIG

Cat n°: W 000 261 353



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

- Covering shape for an optimized head protection
- Silver color
- Adjustable head gear delivered with comfort cushion
- Weight with filter: CHAMELEON F: 410 g, CHAMELEON 3V and V+: 455 g
- Delivered with 5 external protection screens and 3 internal protection screens.

New version with improved functionality. CHAMELEON 3 (V and V+) helmets, now incorporating new technological features:

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



CHAMELEON 3 F

MMA and MIG/MAG welding up to 175 A

- Type : fixed shade DIN 3/11
- ADF Dimensions : 110 x 90 x 5 mm
- Viewing area : 94 x 35 mm
- Light : DIN 3
- Dark shade : DIN 11
- Switching time ligh-dark: 1/3600 sec
- Switching time dark-ligh: 0.12 sec
- 2 optical sensors
- Solar cell power supply
- Permanent protection against UV and IR
- Conformity to **EN 379**
- Warranty: 2 years

Cat. N°: W 000 260 973



CHAMELEON 3 V

Current MMA and MIG/MAG welding

- Type : variable shade DIN4/9-13
- ADF Dimensions : 110 x 90 x 10 mm
- Viewing area : 97 x 47 mm
- Light : DIN 4
- Dark shade : Variable from 9 to 13
- Switching time ligh-dark: 1/16000 sec
- Switching time dark-ligh: adjustable between 0.1 and 1 sec
- Sensitivity adjustment
- 2 optical sensors
- Lithium battery 3V and solar cells power
- Permanent protection against UV and IR
- Conformity to **EN 379**
- Warranty: 2 years

Cat. N°: W 000 260 972



CHAMELEON 3 V+

All processes including TIG welding

- Type : variable shade DIN4/9-13
- ADF Dimensions : 110 x 90 x 10 mm
- Viewing area : 97 x 47 mm
- Light : DIN 4
- Dark shade : Variable from 9 to 13
- Switching time ligh-dark: 1/20000 sec
- Switching time dark-ligh: adjustable between 0.1 and 1 sec
- 2 optical sensors high sensitivity
- Lithium battery 3V and solar cells power supply
- Permanent protection against UV and IR
- Conformity to **EN 379**
- Warranty: 2 years

Cat. N°: W 000 260 971



ZEPHYR HELMET

The ultimate protection of the Welder

Discover a new full solution designed to protect your welders in the best way of efficiency and comfort.

With the ZEPHYR solution, you will find in a rugged transport bag:

- the ZEPHYR 4000 or 3000 helmet,
- the ZEPHYR air flow system,
- a protected hose insuring the connection,
- a shoulder strap,
- a battery charger,
- a flow meter,
- one extra filter.

EN 175

EN 379



2008-247

Helmet with powered air purifying respirator



2008-242

The ZEPHYR Helmet

ZEPHYR insure you higher comfort and protection with a new high performance liquid crystal cell, an extra-wide vision and an extreme reliability.

Filter and protection screen are **easy extractable** with a pressure on the push button.

Adjustable head gear (4 positions), optimized design to insure a good covering of the head, and a light weight.

Two filters with wide vision field

Advance 3000 filter V4/9-13

The new version **Advance 3000** presents 3 innovations :

- 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.



2006-458

Advance 4000 filter V4/9-13

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

- 4 adjustment modes from an LCD screen with digital keys :
- Welding : variable shades 4/9-13, 4 optical sensors, regulation of the sensitivity and of the 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 TIG process low intensity, microplasma, oxyacetylenic welding...
- "X mode" : adjustable shade 4*9-13 with magnetic sensors for outside or obscured arc welding...



W-400W (1)

Technical characteristics of the Advance filters

	Advance 3000 V4/9-13 filter	Advance 4000 V4/9-13 filter
Optical class	1 / 3 / 1	1 / 3 / 1
Switching time ligh-dark	0.0005 second	0.0005 second
Switching time dark-ligh	Adjustable between 0.1 and 1 sec	Adjustable between 0.1 and 1 sec
Sensitivity adjustment	Uninterrupted	10 positions per digital keys
Sensors	4 independent optical sensors	4 independent optical sensors turning magnetic in "X mode"
Viewing area	97 x 60 mm	97 x 60 mm
Light shade	Index 4	Index 4
Dark shade	Adjustable with potentiometer from 9 to 13	Adjustable with digital key from 9 to 13
Grinding mode	Yes - shade 4	Yes - shade 4
Cutting / flame welding mode	No	Yes - shade 5 to 9
Constant protection UV / IR	Yes	Yes
Power supply	Lithium CR2450 3 Volt batteries	Lithium CR2450 3 Volt batteries
Solar cells	Yes	Yes
Working temperature	-5 °C to +55 °C	-5 °C to +55 °C
Storing temperature	-30 °C to +70 °C	-30 °C to +70 °C
Eyes protection standard	CE EN 379	CE EN 379



The ZEPHYR air flow system

Air flow system : **2 levels of flow** (low 160 l/min and high 200 l/min).

This equipment includes an indication of the **flow chosen**, 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** insuring a good level of comfort.

Disconnecting the battery is easy with only one button to push.

It is a **lithium battery with a 8 hours** lifetime duration. A stronger one can be put in place for special cases with 16 hours duration (on request). No need to fully discharge the Li-Ion battery before recharging it.

Opening the filter is also easy with a quarter left, two symbols indicate if it's locked or open and when the filter box is open, the indications are also written indicating the positions.



EN 12941

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, odour

The whole system is **water proofed**

Hose connection and hose cap

The connection between the flow system and the helmet is made through a hose. The connection with the air flow system is **water proofed**. With the helmet, it is a **quick connection** allowing a good flexibility when the welder turns the head. The hose is protected with an outer covering (75% cotton, 25% Kevlar)



Join us on the ZEPHYR green welding

To order :

- **Complete ZEPHYR**
solution with **Advanced 4000 filter**:
Cat n°: W 000 271 201
- **Complete ZEPHYR**
solution with **Advanced 3000 filter**:
Cat n°: W 000 271 202
- **ZEPHYR shell without lens**
Cat n°: W 000 271 212
- **Belt**
Cat n°: W 000 271 203
- **Shoulder straps**
Cat n°: W 000 271 204
- **Hose**
Cat n°: W 000 271 205

- **Hose protection**
Cat n°: W 000 271 206
- **Pre filter**
Cat n°: W 000 271 207
- **Particle filter**
Cat n°: W 000 271 208
- **Carbon filter**
Cat n°: W 000 271 209
- **Battery**
Cat n°: W 000 271 210
- **Battery charger**
Cat n°: W 000 271 211
- **Advanced 4000 filter alone**
Cat n°: W 000 260 974
- **Advanced 3000 filter alone**
Cat n°: W 000 260 839



Flow circulation

You can choose between:

- a **top down air flow**, coming from the top of the helmet **(1)**
- or a **lateral flow** coming from each side at the mouth level **(2)**,
- or a mixed of this two solutions.

This feature insures also a very good comfort to the welder.

Handshields

“Light” solutions



HAND TP

SOLIDO



“Heavy duty”

SUPER AIGLON



SUPER ECLIPSE

Helmets



TP

SOLIDO



**SOLIDO
Flip up**



FG

SUPER NILMELIOR



Passive helmets and handshields



WELDLINE

solutions

HAND FG



**HAND FG
Lift**

Particular uses

Grain leather



Folding mask



**SUPER ROBUR
Flip up**

WELDLUX



SUPER ROBUR



Adjustable head gear "A"



Head gear "B"



**Leather
protection**



Sweat band

Tel.: + 33 134 213 223 - Web: www.weldline-alw.com

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PROFESSIONAL WELDING PRODUCTS BY



8-6



Handshields

“Light” solutions

HAND TP



- Thermoplastic handshield
- Light
- Medium resistance
- Low price

2007-837

Single window 75 x 98 mm

Cat N°: W 000 011 121

Single window

105 x 50 mm or 108 x 51 mm

Cat N°: W 000 335 125

SOLIDO



- Reinforced polypropylene
- Handshield
- Light and well balanced
- Good resistance < 100 °C
- Ergonomic form
- Optimized covering of the head

2007-819

Single window

105 x 50 mm or 108 x 51 mm*

Cat N°: W 000 335 126

* accept also 110 x 90 mm glasses



Handshields

“Heavy duty” solutions

SUPER AIGLON

- Polyester reinforced fibreglass
- Inside handling
- Hand and face protected
- 500 grammes
- Excellent resistance < 400 °C

Window 105 x 50 mm
or 108 x 51 mm

Cat N°:
W 000 011 116

Window 110 x 90 mm

Cat N°:
W 000 011 117



1415-24N

SUPER ECLIPSE

- Polyamide
- Inside handling
- Lift system for the filtering lens to move it during pitting operation
- 520 grammes
- Excellent resistance < 400 °C

Window 105 x 50 mm
or 108 x 51 mm

Cat N°:
W 000 011 118



0947-77

HAND FG

- Fibreglass

Window 110 x 90 mm

Cat N°:
W 000 011 122



2007-828

HAND FG Lift

- Fibreglass

Lift window 110 x 90 mm

Cat N°:
W 000 011 123



2007-830



Passive helmets

“Light” solutions

TP

- Thermoplastic helmet
- Low price
- Single window 108 x 51, 98 x 75 mm or 110 x 90 mm
- Adjustable headgear “B”
- Delivered without glass

Window 108 x 51 mm
or 105 x 50 mm

Cat N°: W 000 335 137

Window 110 x 90 mm

Cat N°: W 000 011 113

Window 98 x 75 mm

Cat N°: W 000 011 114



2007-833



2007-827

Helmet SOLIDO

- Reinforced polypropylene
- Glass easy to remove
- Good resistance < 100 °C
- Adjustable headgear “A”

Window 105 x 50 mm
or 108 x 51 mm*

Cat N°: W 000 335 127

* accept also 110 x 90 mm glasses

SOLIDO Flip up

- Reinforced polypropylene
- Extra wide clear window when opened
- Glass easy to be removed
- Adjustable headgear “A”
- Good resistance < 100 °C

Window 105 x 50 mm
or 108 x 51 mm

Cat N°: W 000 335 136



2007-826



Passive helmets

“Heavy duty” solutions

FG

- Reinforced fibreglass
- Adjustable headgear “B”
- Delivred without window

Window 105 x 50 mm
or 108 x 51 mm

Cat N°: W 000 011 103

Window 110 x 90 mm

Cat N°: W 000 011 104



2007-532



0950-68N

SUPER ROBUR

Window 105 x 50 mm
or 108 x 51 mm

Cat N°: W 000 260 437

Window 105 x 50 mm Flip up

Cat N°: W 000 335 130

Window 110 x 90 mm

Cat N°: W 000 335 129

- Polyester reinforced fibreglass
- Humidity and heat resistant (400 °C)
- Adjustable headgear “A”,
- 435 grammes

SUPER NILMELIOR

- Polyester fibreglass reinforced
- Heat resistant (170 °C)
- 555 grammes
- Adjustable headgear “A”

Double window
105 x 50 mm,
108 x 51 mm
or 105 x 32 mm

**Cat N°:
W 000 260 438**



0947-79N

WELDLUX

- Enveloping profile providing excellent throat and neck protection
- Fibreglass reinforced polyester
- Heat (170 °C) and humidity resistant
- Headgear with rack, rugged and very comfortable
- Very lightweight (390 grammes)
- Delivered without fittings

Ultra wide window
114 x 133 mm

**Cat N°:
W 000 335 131**





Passive masks : leather

Grain leather

- Grain leather
- Ideal for supervisors
- Very light(120 grammes)



Window
105 x 50 mm
or 108 x 51 mm

Cat N°:
W 000 011 115

Grain leather

- Ideal for working in extremely restricted areas
- Adjustable headgear
- 250 grammes

Lift Window 105 x 50 mm
or 108 x 51 mm

Cat N°:
W 000 011 135



Spare parts

Headgear "A"



For ROBUR, SOLIDO
and NILMENIOR helmets.

Cat N°:
W 000 011 137

2007-817

Sweat band



Cat N°:
W 000 260 486

Headgear "B"



For TP and FG helmets.

Cat N°:
W 000 010 884

2007-818

Headgear "C"



For WELDLUX helmets.

Cat N°:
W 000 335 158

2007-817

Leather protection

Cat N°: W 000 335 139



1798-22

Choice criteria :

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

Welding goggles or protective goggles.

Design or personal preference:

- **PILOT** range with round lenses
- **CLASSIC** range
- **FASHION** range

Verify the product conforms 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

Marking of the frame:

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

Lens marking:

X - X.X X X X X — Possibilities:

- > **8** : Short circuit resistance
- > **9** : Spatter resistance
- > **K** : Abrasion resistance
- > **N** : Mist resistance
- > **T** : Temperature resistance between -5 °C to +55 °C

Resistance to impact:

- > **A** : High energy impact
- > **B** : Medium energy impact
- > **F** : Low energy impact
- > **S** : Increased strength

Usage (Optical class):

- > **1** : Continuous use
- > **2** : Medium use
- > **3** : Occasional use

Manufacturer's identification

Numerical filter scale

- > UV: **1.2** to **5**
- > Infrared (IR): **1.2** to **10**
- > Sun filters: **1.1** to **4.1**
- > Welding filters: **4** to **14**

Attention : Goggles can not be used for arc welding > 7 due to UV, IR and skin protection requirements.
(recommendations of welding filter glass can be seen on page 9-22)

Filter identification code

- > UV : **2** or **3**
- > IR : **4**
- > Sun : **5** or **6**
- > Welding : **4** to **7**
(see chart)

Welding scale				
q = acetylene flow rate l/h				
	q ≤ 70	70 < q ≤ 200	200 < q ≤ 800	q > 800
Flame welding	4	5	6	7
Brazing and soldering				
q = oxygen flow rate l/h				
	900 ≤ q ≤ 2 000	2 000 < q ≤ 4 000	4 000 < q ≤ 8 000	
Oxy-cutting	5	6	7	

PILOT welding range

EN 166 - EN 169 - EN 175



EN 175

Shade 5 - Cat N°:
W 000 011 046

PILOT FLIP UP

Flip up anti-mist and anti-scratch treated.



**EN 166
EN 169**

Shade 5 - Cat N°:
W 000 011 050

PILOT 2 METAL

Metal framed two pieces with adjustable centre nose strap.
Adjustable elastic band.



**EN 166
EN 169**

Shade 5 - Cat N°:
W 000 011 047
Shade 6 - Cat N°:
W 000 011 048

PILOT 1

One piece supple black PVC frame. Elastic band.
Aerated side covers honeycombed casing.



EN 175

Shade 5 - Cat N°:
W 000 011 052

PILOT 2 PLASTIC

Black plastic framed two pieces with adjustable centre nose strap.
Adjustable elastic band.

*For the whole PILOT range:
spare lenses*

EN 116 + EN 169 - Ø 50 S5 - Cat N°: W 000 010 925

EN 116 + EN 169 - Ø 50 S6 - Cat N°: W 000 010 937

EN 116 + EN 169 - Ø 50 S7 - Cat N°: W 000 010 949

EN 166 - Ø 50 clear - Cat N°: W 000 010 979

PILOT protection range

EN 166



Clear - Cat N°:
W 000 011 051

PILOT 2 METAL

Metal framed two pieces with adjustable centre nose strap.
Adjustable elastic band and Polycarbonate clear lens.



Clear - Cat N°:
W 000 011 049

PILOT 1 PLASTIC

One piece supple black PVC frame.
Aerated side covers. Carbonate honeycombed casing.

CLASSIC welding range

EN 175



Shade 5 - Cat N°:
W 000 011 054

CLASSIC OVER

Over spectacles. Anti-scratch surface.



Shade 5 - Cat N°:
W 000 011 055

CLASSIC WELDING

Anti-scratch surface. Frame and side shield.
Changeable polycarbonate lenses.

CLASSIC protection range

EN 166 - EN 175



Clear - Cat N°:
W 000 011 056

CLASSIC VISIT FIRST

Panoramic spectacles, indirect ventilation
and also usable as over spectacles.



Clear - Cat N°:
W 000 011 057

CLASSIC VISIT CLEAR

Anti-scratch surface. Frame and side shield.
Changeable polycarbonate lenses.

PILOT welding range

EN 175



Shade 5 - Cat N°:
W 000 011 053

PILOT EVEREST

Standard black spectacles with foldable
polyamide side shields and frame.
Screwed frame to ease lens replacement.

FASHION welding range

EN 175



FASHION WELDING

Black frame with a single screen giving 180° field of vision. The straight sides allow them to be worn with ear muff defenders also includes an adjustable head band.

Shade 3 - Cat N°:
W 000 011 058
Shade 5 - Cat N°:
W 000 011 059



FASHION WELDING MAX

Black frame with a single screen giving 180° field of vision. The sides been adjustable, both length and slope to a degree.

Shade 3 - Cat N°:
W 000 011 060
Shade 5 - Cat N°:
W 000 011 061

FASHION protection range

EN 166



FASHION VISIT

Impact resistant.

	Cat N°
Clear	W 000 011 062
Smoked	W 000 011 063
Yellow amber	W 000 011 064
Silver mirror	W 000 011 065

Welding mask **EN 175**



Shade 5 - Cat N°:
W 000 011 066
Shade 3 - Cat N°:
W 000 011 067

Field of vision 180°, durable, adjustable elastic head band.
Indirect ventilation, anti-mist treated and wearable as over goggles or with a respiratory mask.

Grinding masks **EN 166**



Clear - Cat N°:
W 000 011 068

FIRST

Anti-scratch treated, direct ventilation and adjustable elastic head band.



Clear - Cat N°:
W 000 011 069

OVER

Field of vision 180°, durable, adjustable elastic head band,
Indirect ventilation, anti-mist treated and wearable as over goggles or
with a respiratory mask.



Clear - Cat N°:
W 000 011 070

STAR







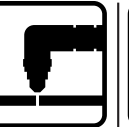

Anti-scratch and anti-mist treated with adjustable elastic head band.



Welding glasses

WELDGLASS

Choose the lens shade adapted to your working conditions

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



2007-839



2007-840

EN 166 : Clear glasses
EN 169 : Coloured glasses



Welding glasses

WELDGLASS

Filtering coloured glasses EN 169 - EN 166

DIMENSION 105 x 50 mm

Bubble pack		Shade		Box
5 pieces	W 000 335 009	5	W 000 010 915	100 pieces
5 pieces	W 000 335 010	6	W 000 010 916	100 pieces
5 pieces	W 000 335 011	7	W 000 010 917	100 pieces
5 pieces	W 000 335 012	8	W 000 010 918	100 pieces
5 pieces	W 000 335 013	9	W 000 010 919	100 pieces
5 pieces	W 000 335 014	10	W 000 010 920	100 pieces
5 pieces	W 000 335 015	11	W 000 010 921	100 pieces
5 pieces	W 000 335 016	12	W 000 010 922	100 pieces
5 pieces	W 000 335 017	13	W 000 010 923	100 pieces

DIMENSION 110 x 90 mm

Bubble pack		Shade		Box
5 pieces	W 000 335 035	5	W 000 010 927	100 pieces
5 pieces	W 000 335 036	6	W 000 010 928	100 pieces
5 pieces	W 000 335 037	7	W 000 010 929	100 pieces
5 pieces	W 000 335 038	8	W 000 010 930	100 pieces
5 pieces	W 000 335 039	9	W 000 010 931	100 pieces
5 pieces	W 000 335 040	10	W 000 010 932	100 pieces
5 pieces	W 000 335 041	11	W 000 010 933	100 pieces
5 pieces	W 000 335 042	12	W 000 010 934	100 pieces
5 pieces	W 000 335 043	13	W 000 010 935	100 pieces

DIMENSION 98 x 75 mm

Bubble pack		Shade		Box
5 pieces	W 000 335 089	5	W 000 010 939	100 pieces
5 pieces	W 000 335 090	6	W 000 010 940	100 pieces
5 pieces	W 000 335 091	7	W 000 010 941	100 pieces
5 pieces	W 000 335 092	8	W 000 010 942	100 pieces
5 pieces	W 000 335 093	9	W 000 010 943	100 pieces
5 pieces	W 000 335 094	10	W 000 010 944	100 pieces
5 pieces	W 000 335 095	11	W 000 010 945	100 pieces
5 pieces	W 000 335 096	12	W 000 010 946	100 pieces
5 pieces	W 000 335 097	13	W 000 010 947	100 pieces

DIMENSION 108 x 51 mm

Bubble pack		Shade		Box
5 pieces	W 000 335 047	5	W 000 010 951	100 pieces
5 pieces	W 000 335 048	6	W 000 010 952	100 pieces
5 pieces	W 000 335 049	7	W 000 010 953	100 pieces
5 pieces	W 000 335 050	8	W 000 010 954	100 pieces
5 pieces	W 000 335 051	9	W 000 010 955	100 pieces
5 pieces	W 000 335 052	10	W 000 010 956	100 pieces
5 pieces	W 000 335 053	11	W 000 010 957	100 pieces
5 pieces	W 000 335 054	12	W 000 010 958	100 pieces
5 pieces	W 000 335 055	13	W 000 010 959	100 pieces

SILVER PROTANE® glasses EN 169 - EN 166

Bubble pack	Dimension 105 x 50 mm	Shade	Dimension 133 x 114 mm	Bubble pack
5 pieces	W 000 335 025	9	W 000 335 063	5 pieces
5 pieces	W 000 335 026	10	W 000 335 064	5 pieces
5 pieces	W 000 335 027	11	W 000 335 065	5 pieces
5 pieces	W 000 335 028	12	W 000 335 066	5 pieces
5 pieces	W 000 335 029	13	W 000 335 067	5 pieces
5 pieces	W 000 335 030	14	W 000 335 068	5 pieces

The SILVER PROTANE® glasses will prove their efficiency in all welding operations where the arc heat causes discomfort. The SILVER PROTANE® filter reflects 70% of thermal radiations (causing heat):

- 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 shield CR-39® EN 166

Dimension	Clear glass (EN 166)		Protection shield CR-39® (EN 166)	
	Bubble pack - 5 pieces	Box - 100 pieces	Bubble pack - 5 pieces	Box - 150 pieces
98 x 75 mm	W 000 335 098	W 000 010 950	W 000 335 100	W 000 335 099
105 x 50 mm	W 000 335 018	W 000 010 926	W 000 335 020	W 000 335 019
108 x 51mm	W 000 335 056	W 000 010 962	W 000 335 058	W 000 335 057
110 x 90 mm	W 000 335 044	W 000 010 938	W 000 335 046	W 000 335 045
135 x 115 mm	W 000 335 069	-	W 000 335 071	W 000 335 070

Tel.: + 33 134 213 223 - Web: www.weldline-alw.com

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