

# Welding Protection





## Welding Protection

The eye is particularly sensitive, thus requiring outstanding protection to prevent irreversible lesions.

### The risks and dangers linked to welding

All welding operations involve a constant risk for the welder and for those located in his direct environment (assistant welder, co-workers or anyone close to the welding application). Wearing the appropriate protection enables the welding process to be performed without any danger, provided that the welder is aware of the different types of risks incurred as well as the body parts to be protected.

### The use of welding techniques generally causes the following hazards:

#### ULTRAVIOLET RADIATION (100-400 nm)

It causes in the human eye what is called welder's flash (photokeratitis), which is very painful, generally resulting in several missed work days. In addition, ultraviolet radiation may result in irreversible cataracts. It can irritate the skin and cause burns, or even cancer.

#### INFRARED RADIATION

Intense infrared and visible light may result in permanent damage such as lesions or retinal burns. In all cases, a high intensity of infrared and visible light may also create sore and red eyes (eye strain).



Appropriate welding masks or goggles must systematically be worn, whatever process used, and comply with the directives in force.

### Shade selector table to help you choose the right shade

Intensity (amperes)	Plasma jet cutting	Arc welding	MIG; heavy metal	MIG alloys	TIG; metal alloys	MAG welding	Plasma jet welding
0,5-							2,5
1-							6
2,5-							7
5-							8
10-					9		9
15-		9			10		10
20-		10			11	10	11
30-	11	11	10	10	12	11	12
40-	12	12	11	11	13	12	13
60-	13	13	12	12	14	13	14
80-		14	13	13		14	15
100-		15	14	14		15	
125-							
150-							
175-							
200-							
225-							
250-							
275-							
300-							
350-							
400-							
450-							
500-							

## Welding Protection



### TIGERHOOD

#### FEATURES & BENEFITS

Lightweight helmet with classic 3C free floating headgear, stable and balanced for improved productivity.

- High performance material, unlike any other thermoplastic welding mask.
- Increased impact resistance.
- Higher melting point / greater heat resistance.
- Greater chemical resistance.
- Greater resistance to scratching and cracking.

Ref.	Description	Screen	Size	Glass
81 29 20	Tigerhood 2999	Fixed	90 x 110	ADF DIN4/9-13



### HW100

#### FEATURES & BENEFITS

The HW100 helmet features solar-powered Shade 10 ADF technology ideal for general welding applications. Specifically designed for convenience, comfort and durability, The HW100 offers a host of features including:

- An easy ratchet adjustment system for personalized fit and total comfort.
- Replaceable, padded sweatband.
- A design that accommodates many safety eyewear and respiratory products.
- Viewing Area: 6.5" (3.8" x 1.7" / 96mm x 42mm)
- Operating temperature range: -5° C to +55° C (+23° F to +131° F)
- Two year warranty on auto darkening filter.
- Certified to the requirements of the ANSI Z87.1-2010, CSA Z94.3, and EN379 standards.

Ref.	Description	Screen	Size	Glass
HW100	HW100	Fixed	94 x 42	ADF 10



### HW200

#### FEATURES & BENEFITS

For more advanced welding applications, the HW200 helmet features solar-powered, adjustable Shade 9-13 ADF technology, as well as sensitivity and delay adjustments for customizable filter settings. Ideal for more experienced welders requiring a wider shade selection, the HW200 helmet offers more comprehensive features and benefits including:

- Grind Mode functionality that ensures the ADF will not darken when used during clean-up work.
- Sensitivity adjustment that gives the wearer the option to adjust the filter's sensitivity to avoid unwanted darkening from ambient light conditions.
- An easy ratchet adjustment system for personalized fit and total comfort.
- Replaceable, padded sweatband.
- A design that accommodates many safety eyewear and respiratory products.
- Viewing Area: 7.2"(3.8" x 1.9" / 97mm x 47mm)
- Operating temperature range: -10° C to +55° C (+14° F to +131° F)
- Two year warranty on auto darkening filter.
- Certified to the requirements of the ANSI Z87.1-2010, CSA Z94.3, and EN379 standards.

Ref.	Description	Screen	Size	Glass
HW200	HW200	Fixed	97 x 47	ADF 9-13





## Welding Protection

### TIGERHOOD AUTO DARKENING WELDING HELMET

#### FEATURES & BENEFITS

- Lightweight helmet with classic 3C free floating headgear, stable and balanced for improved productivity.
- High performance material, unlike any other thermoplastic welding mask. Increased impact resistance.
- Higher melting point / greater heat resistance.
- Greater chemical resistance.
- Greater resistance to scratching and cracking.
- Easy-to-use front loading glassholders.
- Comfortable, free floating headgear.
- Greater heat resistance.
- Better dimensional stability at elevated temperatures.
- Higher melting point.
- Extended service life, lower cost.
- Solar powered, no batteries to change.
- Lithium battery back-up.
- Fast, reliable switching speed.
- Constant UV/IR protection.
- Best optical quality in the industry.
- Can be used in most welding applications.
- Contains sensitivity adjustment.
- Perfect price/quality report.

#### Technical

- **Put ADF technology to work:** The Tigerhood continues to set the standard for performance and innovation with the introduction of models equipped with quality, reliable auto darkening filters that take advantage of advances in ADF technology. A quality welding helmet with auto darkening filter increases productivity, improves quality, reduces downtime and rework, lowers injury and workers compensation costs.
- **Rugged, reliable performance:** Tigerhood high performance ADF helmets are engineered to provide exceptional performance across the whole spectrum of arc welding processes. Built-in ruggedness and advanced technology ensure that they work the first time and every time all shift long.
- **Productivity improvement:** Because Tigerhood high performance ADF's reduce downtime, welders make more and better welds, with less rework, and productivity gains from 30% to 50% are common.

#### Design to Use with PAPR or Supplied Air Line System

- Description: Thermoplastic Welding helmet
- Glass holder: 90mm x110mm
- Materials: Propionate
- Weight: 410 gr. (ex. Welding filter)
- Marking: EN 175



Ref.	Description	Screen	Size
A114725	Tigerhood Auto Darkening for SAR/PAPR	Fixed	90 x 110



### TIGERHOOD CLASSIC

#### FEATURES & BENEFITS

- Unique welding helmet design provides extended throat protection while blocking fumes and smoke from the face.
  - Molded-in colors eliminate chipping, peeling, and fading.
  - Smooth, seamless shell deflects sparks and spatter reducing the risk of burn through
- Tigerhood™ Classic contains the features that make lightweight thermoplastic welding helmets popular with today's welders. What makes it stand out is its performance and comfort enhancing extras that help welders produce more with fewer injuries. Molded from Noryl® job proven superior in welding related performance characteristics, Tigerhood™ Classic is the workhorse of thermoplastic helmets. It maintains its high performance level across a wide spectrum of welding processes and working conditions. Tigerhood™ Classic has a high welder satisfaction rating because it helps welders do their job better. When welders do their job better – you gain a productivity edge.



#### Exclusive Air Flow Design:

- Tigerhood™ Classic's unique design provides extended throat protection while blocking fumes and smoke from the face. Size and shape allows air to circulate, to help clear any smoke and fumes that seep in.
- Comes with shade 10 filter plate installed.

Ref.	Description	Screen	Glass
906GY	Tigerhood Classic	Flip up	IR10

### FMBV913

#### FEATURES & BENEFITS

- Shade 4 (light state).
- Selectable filter shades 9-13.
- Fast, reliable switching speed Solar powered-no batteries to change 7 square inches of viewing area.
- Highest optical quality available Can be used in most welding applications Contains sensitivity adjustment Responds to low (5 amp) TIG arcs Two year warranty.
- Among lowest price, best values.



Ref.	Description	Glass
FMBV913	Auto Darkening Filter	ADF DIN4/9-13