

Passive vs. Auto-Darkening Filter Helmets

What you could be gaining in productivity

JACKSON SAFETY* Auto-Darkening Filters

How an ADF Boosts Productivity

Both passive and Auto-Darkening Filter (ADF) welding helmets provide excellent eye protection. But now research shows that ADF helmets also offer impressive productivity gains, as well as greater user comfort.

According to a new study¹ that compares the productivity of a passive and an ADF unit:

- 3% of a welder's day is spent lifting and nodding his/her helmet
- An ADF eliminates the need to "lift and nod" the helmet
- Use of an ADF will put \$500 per year, per welder, back in the company's pocket
- Use of an ADF can recapture 12 minutes per day in productivity per welder

¹ Productivity Claim for Welders Using an Auto Darkening Filter (ADF) Helmet Vs a Passive Helmet (Research Summary).
Date: 7/29/2010. Authors: Cerita D. Bethea, Rick Zepp, Sandy Erreger, Martha Tate, Audra Wright

The Very Real Benefits of an ADF

- **Increased accuracy** because the welder can always see what he's doing – and start in exactly the right spot
- **Increased comfort** by eliminating the repetitive "lifting and nodding" that can cause neck strain
- **Increased protection** from injuries caused by welding, chipping or grinding in the proximate area
- **Increased peace of mind** because even if the ADF should not become active during an arc, it still protects eyes from serious damage
- **Increased productivity** by eliminating the time it takes to lift and nod the helmet before and after each weld

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Calculate Your Own Savings

Our *Auto-Darkening Filter Productivity and Profitability Calculator* can show you just how much money you can save – and how much productivity you can gain – using our ADF welding helmets.

Just provide a few key numbers to your KIMBERLY-CLARK PROFESSIONAL* Representative to find out the estimated cost-saving benefits to your welding operation.

Here's One Example:

Assuming the average welder makes \$16.50 an hour, at 80 minutes a week², an employer can save \$22 per welder in lost productivity each week. This translates into \$88 per month per welder. This gain in productivity would pay for a standard ADF helmet in 3 to 4 months.

How an ADF Helmet Works

Using advanced light sensors, electronics and LCD's, an ADF helmet automatically adjusts to filter light at different intensities.

During prep work and positioning, the filter lens is typically at shade level 3 or 4. It is much like wearing sunglasses, so the welder can see his work and get into the right position.

When an arc is struck, the filter simultaneously darkens the helmet's filter lens to protect the eyes (usually to welding shade 10 -13).

Then the filter automatically returns to minimal shading, so the welder can see to clean the weld without lifting the helmet.



Answering the "What Ifs"

What if an ADF fails to darken?

Whether it's in the light or dark state, an ADF helmet provides continuous protection from UV and infrared radiation.

What if someone next to me strikes an arc?

If you're wearing a passive helmet, you may be "flashed" and sustain eye injury. If you're wearing an ADF helmet, your eyes will be protected from arcs, grinding and other hazards in the area.

If I switch from passive to an ADF helmet, will I really get the protection I need?

ADF helmets provide the same high level of protection as passive helmets. Plus they offer additional benefits passive helmets can't match.

² http://www.payscale.com/research/US/Job=Welder,_Cutter,_Solderer,_or_Brazer/Hourly_Rate

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JACKSON SAFETY* Auto-Darkening Filter (ADF) Warning

- Provides limited eye protection. Additional protective devices are required for full eye coverage and protection.
- Should not be worn to protect from other hazards including, but not limited to, airborne dusts or mists, liquid splashes, impact hazards and sports activities.

The selection and use of welding personal protective equipment must be based on a hazard assessment of the wearer's work environment conducted by the wearer, or for an industrial environment, an appropriately trained individual for your employer or organization in accordance with OSHA regulations 29 CFR 1910.133 and ANSI Standard No. Z87.1. Make sure the ADF is installed properly into the helmet shell and is clean. If the ADF is scratched or damaged, do not use it and replace it with a new one. Do not use the ADF without the JACKSON SAFETY* brand internal and external safety plates. To clean, wipe only with a soft cloth. Do not immerse ADF in liquids.

Kimberly-Clark warrants that its products (1) comply with K-C's standard specifications as of the delivery date to K-C's authorized distributors/direct purchasers and are warranted for the following periods from end user's date of purchase (verified by valid sales receipt) (a) five years for Balder Technology auto darkening filters; (b) two years for all other auto darkening filters; and (c) one year for powered air purifying respirators; (2) comply with all K-C labeling representations; and (3) are manufactured in compliance with all applicable federal, state, and local laws in effect at the time and place of manufacture of the products. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. K-C is not liable for any kind of special, incidental, or consequential damages. K-C's liability for breach of contract, tort or other cause of action shall not exceed the product purchase price. Purchasers and users are deemed to have accepted the above warranty and limitation of liability, and cannot change the terms by verbal agreement or by any writing not signed by K-C. To the extent required by applicable law, K-C does not limit its liability for death/injury resulting from K-C's negligence.