VIKING™ Auto-Darkening Welding Helmets

 Processes
 Stick, TIG, Pulsed TIG, MIG, Pulsed MIG, Flux-Cored, Gouging, Grinding

 Product Number
 See pg 2 - 4 for all models
 See back for complete specs

 Viewing Area
 1840 Series: 3.78 x 1.85 in. (96 x 47 mm)
 2450 Series: 3.82 x 2.44 in. (97 x 62 mm)
 3350 Series: 3.74 x 3.34 in. (95 x 85 mm)

 Variable Shades
 1840/2450 Series: DIN 9-13,
 3350 Series: DIN 6-13

 Light to Dark Switching
 1/25,000 sec.

 Arc Sensors
 1840 Series: 2, 2450/3350 Series: 4

 Light State/Grind Mode
 DIN 3.5

 TIG Amp Rating
 1840/2450 Series: DC>3 Amp; AC>5 Amp
 3350 Series: DC>2 Amp, AC>4 Amp

 Power Supply
 1840 Series: Solar Powered w/ Battery Assist
 2450/3350 Series: Solar Cells w/ Replaceable Lithium Batteries

 Solar Powered
 With Battery Assist

 Rugged. Light Weight. Feature-packed.
 VIKING™ solar-powered auto-darkening helmets are loaded with features, built to demanding specs and packaged with a host of accessories.

 FEATURES

 ‣ Continuously variable control – For shade and sensitivity.
  • Shade control.
    - 1840 9-13 Shade External Control
    - 2450 9-13 Shade Internal Control
    - 3350 6-13 Series Internal Control
  • Sensitivity – Adjustable for different welding environments.
  • Delay – Adjustable from dark back to light state.

 ‣ Light weight –
  • 1840 Black - 18 oz (510 g)
  • 2450 Black - 20 oz (567 g)
  • 3350 Black - 20 oz (567 g)

 ‣ Grind mode – Great for weld prep or post-weld clean up activities.

 ‣ Magnifying ‘cheater’ lens capable

 ‣ Hard hat adapter capable

 ‣ Bonus accessories
  • Extra Cover Lenses Enclosed (2) inside and (5) outside.
  • Bandana.
  • Helmet Sport-Pak bag.
  • Replaceable lithium batteries.

 Processes
 Stick, TIG, Pulsed TIG, MIG, Pulsed MIG, Flux-Cored, Gouging, Grinding

 Product Number
 See pg 2 - 4 for all models
 See back for complete specs

 Viewing Area
 1840 Series: 3.78 x 1.85 in. (96 x 47 mm)
 2450 Series: 3.82 x 2.44 in. (97 x 62 mm)
 3350 Series: 3.74 x 3.34 in. (95 x 85 mm)

 Variable Shades
 1840/2450 Series: DIN 9-13,
 3350 Series: DIN 6-13

 Light to Dark Switching
 1/25,000 sec.

 Arc Sensors
 1840 Series: 2, 2450/3350 Series: 4

 Light State/Grind Mode
 DIN 3.5

 TIG Amp Rating
 1840/2450 Series: DC>3 Amp; AC>5 Amp
 3350 Series: DC>2 Amp, AC>4 Amp

 Power Supply
 1840 Series: Solar Powered w/ Battery Assist
 2450/3350 Series: Solar Cells w/ Replaceable Lithium Batteries

 Solar Powered
 With Battery Assist

 Rugged. Light Weight. Feature-packed.
 VIKING™ solar-powered auto-darkening helmets are loaded with features, built to demanding specs and packaged with a host of accessories.

 FEATURES

 ‣ Continuously variable control – For shade and sensitivity.
  • Shade control.
    - 1840 9-13 Shade External Control
    - 2450 9-13 Shade Internal Control
    - 3350 6-13 Series Internal Control
  • Sensitivity – Adjustable for different welding environments.
  • Delay – Adjustable from dark back to light state.

 ‣ Light weight –
  • 1840 Black - 18 oz (510 g)
  • 2450 Black - 20 oz (567 g)
  • 3350 Black - 20 oz (567 g)

 ‣ Grind mode – Great for weld prep or post-weld clean up activities.

 ‣ Magnifying ‘cheater’ lens capable

 ‣ Hard hat adapter capable

 ‣ Bonus accessories
  • Extra Cover Lenses Enclosed (2) inside and (5) outside.
  • Bandana.
  • Helmet Sport-Pak bag.
  • Replaceable lithium batteries.
VIKING™ Welding Helmets

- Continuously Variable Delay – 0.1 – 1.0 sec.
- Continuously Variable Sensitivity – For use in different ambient light welding environments.
- Substantial View Size – 96 x 47 mm, 3.78 x 1.85 in.
- Magnifying ‘Cheater’ Lens Capable – Easy to add Lincoln Electric lenses. See back page for details.
- Top Quality LCD Optics – Deliver a clear, natural view.

Meets ANSI, CAN/CSA and CE Requirements – 3rd party testing of cartridge design.

1840 SERIES

- 1840 Black
  K3023-1

- Tribal™
  K3024-1

- Cruzin Sticks™
  K3025-1

- 1840 Patriot™
  K3026-1

- Amp Angel™
  Design intended specifically for female welders.
  K3027-1

110 X 90 mm (4.33 X 3.54 in.) CARTRIDGE

- Two Independent Arc Sensors – Helps avoid blind spots that prevent auto-darkening.
- Solar-Powered – With battery assist. No on/off switch to remember.
- External Grind Mode – Use helmet as a grinding shield.
- 18 40 Series –
  40 designates 90 x 110 mm cartridge compatible shell.
  1.85 in. height of viewing area.

LINCOLN ELECTRIC
THE WELDING EXPERTS
4.50 X 5.25 in. (114 X 133 mm) CARTRIDGE

- **Solar-Powered** – With user replaceable batteries. Two CR2450 lithium batteries required (included with helmet). No on/off switch to remember.
- **Rigid Protective Cartridge Frame Holder** – Securely locks cartridge into place (not shown).
- **Four Independent Arc Sensors** – Helps avoid blind spots that prevent auto-darkening.
- **24 50 Series** – 50 designates 4.50 x 5.25 in. cartridge compatible shell. 2.44 in. height of viewing area.

- **Low Battery Indicator Light**
- **Continuously Variable Delay** – 0.1 – 1.0 sec.
- **Internal Variable Shade Control** – For shade 9-13.
- **Continuously Variable Sensitivity** – For use in different ambient light welding environments.
- **Internal Grind Mode** – Use helmet as a grinding shield.
- **Substantial View Size** – 97 x 62 mm, 3.82 x 2.44 in.
- **Magnifying ‘Cheater’ Lens Capable** – Easy to add Lincoln Electric lenses. See back page for details.
- **Top Quality LCD Optics** – Deliver a clear, natural view.
- **Meets ANSI, CAN/CSA and CE Requirements** – 3rd party testing of cartridge design.
- **Battery Compartments (CR 2450 lithium batteries required Qty – 2)**
VIKING™ Welding Helmets

Rigid Protective Cartridge Frame Holder – Securely locks cartridge into place (not shown).

Four Independent Arc Sensors – Helps avoid blind spots that prevent auto-darkening.

33 50 Series –
- 50 designates 4.50 x 5.25 in. cartridge compatible shell.
- 3.34 in. height of viewing area.

Solar-Powered – With user replaceable battery. One CR2450 lithium battery required (included with helmet). No on/off switch to remember.

Shade Range Switch – Toggle between 6-9 or 9-13.

Substantial View Size – 95 x 85 mm, 3.74 x 3.34 in.

Magnifying ‘Cheater’ Lens Capable – Easy to add Lincoln Electric lenses. See back page for details.

Top Quality LCD Optics – Deliver a clear, natural view.

Meets ANSI, CAN/CSA and CE Requirements – 3rd party testing of cartridge design.

Continuously Variable Delay – 0.1 – 1.0 sec.

Continuously Variable Sensitivity – For use in different ambient light welding environments.

Internal Grind Mode – Use helmet as a grinding shield.

Battery/Shade Test Control – Pre-test helmet shade before welding.

Battery Compartment (CR 2450 lithium battery required Qty – 1)

Low Battery Indicator Light

Internal Variable Shade Control – For shade 6-9 or 9-13 based on shade range selected.
**Lightweight, Full Coverage Shell**
- Sheds spatter and resists impact.
- Meets ANSI Z87.1, CAN/CSA Z94.3 and CE certification.

**Headgear**
- Secure up stop keeps helmet up when not welding.
- Fore/Aft adjustment for distance from face.
- Soft absorbent sweat band.

**Magnifying ‘Cheater’ Lens Capable**
- For weld puddle clarity.
- Select from these lenses KP3046-100, KP3046-125, KP3046-150, KP3046-175, KP3046-200, KP3046-225, KP3046-250
  note: Part number extension is the diopter

**Hard Hat Adapter Capable**
- For most hard hat models.
- Order KP3047-1.

---

**GREAT BONUS ITEMS!**

1840 Series Sport-Pak helmet bag includes Tribal™ bandana.

2450 and 3350 Series Sport-Pak helmet bag includes Foose® bandana.

**Extra Cover Lenses Enclosed**
- Inside lens – QTY 2
- Outside lens – QTY 5

In addition to a Sport-Pak, the 1840 Black, 2450 and 3350 Black Series helmets include a decal sheet. Design your own helmet!
CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.