



VIKING® 3250D FGS™ SERIES WELDING HELMET
WITH INTEGRATED FLIP-UP GRIND SHIELD

LINCOLN®
ELECTRIC



THE SINGLE HELMET SOLUTION

In any fabrication environment, productivity, safety and optic clarity are important. The **VIKING® 3250D FGS™** from Lincoln Electric provides enhancements to each of these elements when compared to a standard welding helmet. Designed for the professional welder, the 3250D FGS significantly increases the operators' field of view with the integration of a clear face shield and side windows. These features can reduce the amount of time needed to conduct material setup, inspection and weld operations. The increased FOV also can make general movements less hazardous and eliminates the need for removing the helmet to conduct various required tasks. This is coupled with an industry leading optic design, 4C® Lens Technology, which maximizes color distinguishment while eliminating blur, distortion and providing a consistent shade at any angle. The 12.5-square-inch auto-darkening viewing area is the largest for this product type industry wide. This provides a perfectly clear widescreen view of the arc, puddle and base material to maximize quality, productivity and control.

Every professional fabrication task comes with its own set of circumstances and demands, but when it comes to productivity, safety and optic clarity, the 3250D FGS is the only welding helmet you need.

Industry Leading Optics

The VIKING® FGS™ 3250D welding helmet features world class optic technology to improve quality, expand safety and reduce eye strain.

4C® LENS TECHNOLOGY



Lincoln Electric's proprietary liquid crystal display (LCD) enhances the visible color spectrum of the display. Unlike traditional auto-darkening filters, 4C® lens technology broadens the color range & hues which can be seen in both light and dark states. This eliminates imperfections and color saturation to create the clearest view of the base material, arc & puddle, while reducing eye strain.

PERFECT OPTICAL CLARITY



INDUSTRY'S LARGEST VIEWING AREA*



*For Auto-darkening welding helmets with an integrated grind shield

Maximizing Field of View

The VIKING® FGS™ 3250D welding helmet increases field of view in both the open and closed positions. This provides operators with various safety and productivity enhancements.



Open Position



Closed Position



SAFETY

- ANSI Z87.1 compliant grind shield protects operators from various impact hazards
- The 161 Degree field of vision makes material inspection, grinding and general movements less hazardous
- Shade 5 side windows increase peripheral vision in the closed position
- The anti-fog lens coating allows for a more consistently clear view



PRODUCTIVITY

- The integration of a clear grind shield shortens the amount of time needed to begin grinding operations and eliminates the need for a separate face shield
- The expanded field of vision in both positions can reduce setup, inspection and weld time
- The large auto-darkening viewing area enhances operator control



Cheater Lens Capable

- Simple slide-in bracket is mounted on the auto-darkening filter to offer vision assistance
- Compatible with 2 x 4 dimensioned lens



Hard Hat Capable

- Helmet shell design offers clearance for an expanded range of hard hats
- Compatible with slotted & non-slotted hard hats
- Robust connection design



Advanced Headgear

- Easy forward and backward slide adjustments
- Up and down orientation pin
- Vertical position lock
- Variable tightness expands versatility

3250D FGS™ Welding Helmet



KEY FEATURES

1. **4C® Lens Technology** provides an unparalleled view of the arc, puddle and base material while reducing eye strain
2. **Perfect 1/1/1 Optical Clarity** eliminates distortion and blurriness while maintaining shade consistency and improving angle performance
3. **12.5 Square Inch Auto-Darkening Display** offers a widescreen process view to broaden field of view and enhance operator control
4. **Shade 5 Side Windows** increases peripheral vision in the closed helmet position
5. **Flame Retardant Head Covering** provides protection from spatter and improves comfort
6. **Large Integrated Grinding Shield** protects operators from impacts while providing a clear viewing area for grinding and material inspection
7. **Anti-Fog Coating** helps maintain a consistently clear view
8. **4 Axis Headgear** provides multi-directional adjustments to evenly distribute weight and improve comfort



Comes with Helmet Bag,
Bandana, Side Window Covers
and Extra Cover Lenses



LANCOLN
ELECTRIC

F6S™ SERIES

WARNING
Read the instructions carefully before using this equipment.
Do not use this equipment if you are under the influence of alcohol or drugs.
Do not use this equipment in a flammable or explosive atmosphere.
Do not use this equipment in a confined space.
Do not use this equipment in a wet or damp environment.
Do not use this equipment in a high temperature environment.
Do not use this equipment in a high pressure environment.
Do not use this equipment in a high voltage environment.
Do not use this equipment in a high speed environment.
Do not use this equipment in a high frequency environment.
Do not use this equipment in a high magnetic field environment.
Do not use this equipment in a high radiation environment.
Do not use this equipment in a high noise environment.
Do not use this equipment in a high vibration environment.
Do not use this equipment in a high dust environment.
Do not use this equipment in a high humidity environment.
Do not use this equipment in a high salt environment.
Do not use this equipment in a high acid environment.
Do not use this equipment in a high alkali environment.
Do not use this equipment in a high oxygen environment.
Do not use this equipment in a high nitrogen environment.
Do not use this equipment in a high carbon dioxide environment.
Do not use this equipment in a high sulfur dioxide environment.
Do not use this equipment in a high hydrogen sulfide environment.
Do not use this equipment in a high ammonia environment.
Do not use this equipment in a high hydrogen cyanide environment.
Do not use this equipment in a high carbon monoxide environment.
Do not use this equipment in a high nitric oxide environment.
Do not use this equipment in a high nitrogen dioxide environment.
Do not use this equipment in a high sulfur trioxide environment.
Do not use this equipment in a high phosphorus pentoxide environment.
Do not use this equipment in a high silicon dioxide environment.
Do not use this equipment in a high calcium hydroxide environment.
Do not use this equipment in a high sodium hydroxide environment.
Do not use this equipment in a high potassium hydroxide environment.
Do not use this equipment in a high lithium hydroxide environment.
Do not use this equipment in a high magnesium hydroxide environment.
Do not use this equipment in a high zinc hydroxide environment.
Do not use this equipment in a high aluminum hydroxide environment.
Do not use this equipment in a high iron hydroxide environment.
Do not use this equipment in a high nickel hydroxide environment.
Do not use this equipment in a high cobalt hydroxide environment.
Do not use this equipment in a high manganese hydroxide environment.
Do not use this equipment in a high chromium hydroxide environment.
Do not use this equipment in a high vanadium hydroxide environment.
Do not use this equipment in a high niobium hydroxide environment.
Do not use this equipment in a high tantalum hydroxide environment.
Do not use this equipment in a high molybdenum hydroxide environment.
Do not use this equipment in a high tungsten hydroxide environment.
Do not use this equipment in a high uranium hydroxide environment.
Do not use this equipment in a high plutonium hydroxide environment.
Do not use this equipment in a high americium hydroxide environment.
Do not use this equipment in a high curium hydroxide environment.
Do not use this equipment in a high berkelium hydroxide environment.
Do not use this equipment in a high californium hydroxide environment.
Do not use this equipment in a high einsteinium hydroxide environment.
Do not use this equipment in a high fermium hydroxide environment.
Do not use this equipment in a high mendelevium hydroxide environment.
Do not use this equipment in a high nobelium hydroxide environment.
Do not use this equipment in a high lawrencium hydroxide environment.
Do not use this equipment in a high rutherfordium hydroxide environment.
Do not use this equipment in a high dubnium hydroxide environment.
Do not use this equipment in a high seaborgium hydroxide environment.
Do not use this equipment in a high bohrium hydroxide environment.
Do not use this equipment in a high hassium hydroxide environment.
Do not use this equipment in a high meitnerium hydroxide environment.
Do not use this equipment in a high darmstadtium hydroxide environment.
Do not use this equipment in a high roentgenium hydroxide environment.
Do not use this equipment in a high copernicium hydroxide environment.
Do not use this equipment in a high nihonium hydroxide environment.
Do not use this equipment in a high flerovium hydroxide environment.
Do not use this equipment in a high oganesson hydroxide environment.

ACCESSORIES AND REPLACEMENT PARTS

| Sales Number | Description | Package Qty. |
|--------------|--|--------------|
| KP3700-1 | FGS 3250D- Outside Cover Lens | 5 |
| KP3701-1 | FGS 3250D- Inside Cover Lens | 2 |
| KP3702-1 | FGS 3250D- Clear Anti-Fog Grind Shield | 1 |
| KP3703-3 | FGS 3250D Series ADF Cartridge | 1 |
| KP3704-1 | FGS 3250D- Replacement Shell (with inside windows) | 1 |
| KP3705-1 | FGS 3250D- Side Window Covers | 2 |
| KP3706-1 | FGS 3250D- Headgear | 1 |
| KP3707-1 | FGS 3250D- Slotted Hard Hat Adapter | 1 |
| KP3708-1 | FGS 3250D- Halo Style Hard Hat Adapter | 1 |
| KP2930-1 | Sweatband | 2 |
| KP3046-100 | Cheater Lens 1.00 MAG | 1 |
| KP3046-125 | Cheater Lens 1.25 MAG | 1 |
| KP3046-150 | Cheater Lens 1.50 MAG | 1 |
| KP3046-175 | Cheater Lens 1.75 MAG | 1 |
| KP3046-200 | Cheater Lens 2.00 MAG | 1 |
| KP3046-225 | Cheater Lens 2.25 MAG | 1 |
| KP3046-250 | Cheater Lens 2.50 MAG | 1 |
| S32652-10 | Outside Cover Lens Holder | 1 |
| S32652-3 | Grind Shield Lens Holder | 1 |
| S32652-5 | FGS 3250D- Side Lens | 2 |

PRODUCT SPECIFICATIONS

| Product Name | Optical Clarity | Lens Switching Speed (sec) | Variable Shade/ Control | Battery Replacement Type | Magnifying "Cheater" Capable Lens | Grind Mode Shade/ Control | Light Sensitivity Control | Delay Control Dark to Light (sec) | Arc Sensors | TIG Amp Rating | View Area in. (mm) | Temperature Range | Weight oz. (g) | Warranty |
|-----------------------------------|-----------------|----------------------------|-------------------------|--------------------------------------|-----------------------------------|---------------------------|----------------------------|-----------------------------------|-------------|--------------------------|---------------------------|--|----------------|----------|
| 3250D FGS Series K3540-3 | 1/1/1/1 | 1/25,000 | 5-13 Internal | 2 CR2450 Replaceable Batteries | Yes | 4 / Internal | Digital Display Control | 0.0 - 1.0 Digital Adjustment | 4 | DC > 2 Amp AC > 2 Amp | 2.95 x 4.25 (75 x 108) | Operating: -10°C - +55°C (14°F - 131°F) Storage: -20°C - +70°C (-4°F - 158°F) | 28 (793) | 5 Years |



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.

The operation of welding fume control equipment is affected by various factors including proper use and positioning of the equipment, maintenance of the equipment and the specific welding procedure and application involved. Worker exposure level should be checked upon installation and periodically thereafter to be certain it is within applicable OSHA PEL and ACGIH TLV limits.