

**AUTO DARKENING WELDING HOOD ORDERING SPECIFICATIONS**  
**DOCUMENT # 6161-3341**

1. Auto-Darkening cartridge must offer 1/1/1/1 optical clarity rating.  
These ratings correspond to four optical categories (Optical, Diffusion of light, Variations of Luminous Transmittance, & Angle Dependence of Luminous Transmittance)
2. Must have internal variable shading of from 5-8 & 9-13 fully adjustable.
3. Must offer or be designed to be capable of installing after-market Magnifying "cheater" lens
4. Grind mode shade/control must be internal and at least 3.5
5. Light sensitivity control must be continuous
6. Must have at least four sensors to detect welding arc light and darkening lens to pre-selected shade
7. Must be rated DC>2 Amp & AC> 2 Amp for GTAW welding
8. Viewing cartridge must be at least 3.25" X 4.0"
9. Must be able to operate and function within a temperature range of 14 deg. To 131 deg. F
10. Must be light weight (21 oz. or less)
11. Must have at least a 3 year warranty
12. Must have replaceable clear internal and external protective lens covers
13. Must be able to be used with GMAW, GMAW-P, GTAW, MMAW, welding processes and Plasma Arc and Air Carbon Arc Cutting processes
14. Cartridge must provide UV and IR radiation protection both light and dark states
15. Power supply to lens shall be battery/solar cells
16. Cartridge shall have low battery light to indicate battery replacement is needed
17. On/off power shall be fully automatic
18. Light to dark switching time shall be 0.00004 sec. or less
19. Dark to light switching time shall be adjustable
20. Must have lens activation test button to insure auto dark lens is operational prior to welding.

21. Shall be in compliance with ANSI Z87.1-2010/CSA Z94.3

22. Hood headgear shall have crown adjustment ,fore-aft tilt adjustment and locking ratchet knob size/tightness adjustment

23. Hood headgear shall have replaceable frontal sweat band

24. Must be rated for overhead use