

## Eyewear Information

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### INFORMATION FOR YOUR SAFETY

## F.Y.S. Eye Protection

The United States Federal Government has legislated an extensive system of guidelines designed to keep its citizens safe and healthy at work. These guidelines are the basis for the product selection in our catalog. Our mission is to enable customers to comply with federal regulations most efficiently by offering a wide selection of the most popular safety products at competitive prices. The governing body is known as OSHA, the Occupational Safety and Health Administration. The following are OSHA regulations that pertain to products in this catalog. According to OSHA, an estimated 90% of eye injuries can be prevented through the use of proper protective eyewear. For the grandfather of all occupational safety, visit the OSHA Web Site at [www.osha.gov](http://www.osha.gov).

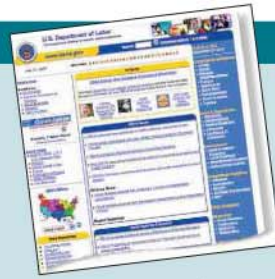
#### Excerpts from 29 CFR 1910.133 for Eye & Face Protection

The employer shall ensure that each affected employee uses appropriate eye or face protection when exposed to eye or face hazards from flying particles, molten metal, liquid chemicals, acids or caustic liquids, chemical gases or vapors, or potentially injurious light radiation... The employer shall ensure that each affected employee uses eye protection that provides side protection when there is a hazard from flying objects. Detachable side protectors (e.g. clip-on or slide-on side shields) meeting the pertinent requirements of this section are acceptable... The employer shall ensure that each affected employee who wears prescription lenses while engaged in operations that involve eye hazards wears eye protection that incorporates the prescription in its design, or wears eye protection that can be worn over the prescription lenses without disturbing the proper

#### Why you need to purchase Eye Protection

Each year, \$300-500 million is spent in the U.S. as a result of eye injuries. OSHA (Occupational Safety & Health Administration) estimates that over three million workers are at risk for job-related eye injuries, and more than 2000 are actually injured every business day. Of these injuries, 10-20% result in temporary or permanent vision loss. The good news is that approximately 90% of these injuries are preventable with proper eye protection. OSHA requires employers to make sure that all employees use appropriate eye protection. It's an investment worth making.

ANSI (American National Standards Institute) is the recognized entity that sets forth manufacturing standards in the U.S. The current ANSI Z87.1-2003 Standard requires that safety glasses and goggles provide: adequate



[www.osha.gov](http://www.osha.gov)



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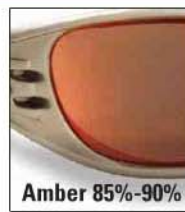
For information on the American National Standards Institute (ANSI) and the latest national and international standards-related activities, visit ANSI Online at [www.ansi.org](http://www.ansi.org), where you can order your own copy of ANSI Z87.1-2003, Practice for Occupational and Educational Eye and Face Protection.

position of the prescription lenses or the protective lenses... Eye and face PPE shall be distinctly marked to facilitate identification of the manufacturer... The employer shall ensure that each affected employee uses equipment with filter lenses that have a shade number appropriate for the work being performed for protection from injurious light radiation. As a rule of thumb, start with a shade that is too dark to see the weld zone. Then go to a lighter shade which gives sufficient view of the weld zone without going below the minimum. Shade values apply where the actual arc is clearly seen. Experience has shown that lighter filters may be used when the arc is hidden by the workpiece... Protective eye and face devices shall comply with current ANSI Z87.1-2003, American National Standard Practice for Occupational and Educational Eye and Face Protection.

protection from the hazards for which they were designed, reasonable comfort, a secure fit without interfering with movement or vision, the ability to easily be cleaned and disinfected, durability and the ability to fit over or incorporate prescription eyewear. An updated standard, ANSI Z87+, incorporates new mass and High Impact Standards. The Z87+ Standard is not yet mandated by OSHA.

#### What you should look for in Protective Eyewear

Assess the hazards of the work environment, prescription eyewear needs, worker comfort and style preference requests, budget and other PPE (Personal Protective Equipment) being worn on the job. Browse the wide selection we offer, then choose the best glasses or goggles for your needs.



Operation	Recommended Filter Shade
Torch Soldering	2
Torch Brazing	3-4
Light Cutting up to 1"	3-4
Medium Cutting 1" to 6"	4-5
Heavy Cutting more than 6"	5-6
Gas Welding, light up to 1/8"	5
Gas Welding, medium, 1/8" to 1/2"	5

#### LENS COLORS VLT (Visual Light Transmission)

Lens tints offer much more than good looks. They enhance a worker's vision under various lighting conditions. Following are different lens options, their applications and percentage of VLT. VLT is the visible light transmission, which is the percentage of light transmitted by a lens; the lower the transmission the darker the lens. This value is an average of all the wave lengths being transmitted. Keep in mind that the general descriptions listed below are general descriptions only. Consult your safety director to insure the proper application.

**Clear 85%-92%** A general-purpose safety lens providing excellent optics for most applications where impact protection is required.

**Gray/Brown 12%-62%** For outdoor applications where sunlight and glare can cause eye strain and fatigue.

**Mirror 9%-20%** Outdoor use to reflect and reduce the amount of light and heat that passes through the lens.

**Amber 85%-90%** Blocks the blue portion of the visible light spectrum, creating maximum contrast enhancement, particularly in low light.

**Indoor/Outdoor 50%-55%** Reduces glare from artificial light such as halogen and fluorescent.

**Blue 33%-70%** Protects from excessive glare, high levels of hazardous visible light and ultra-violet radiation in outdoor applications.

**Vermilion 55%** Enhances contrast while reducing all colors equally for optimum color recognition.

**Filter Shades** Protects against ultra-violet and infrared radiation generated when working with molten metal, and in welding, cutting, soldering and brazing.