



*Beyond The Standard™*

## EYEWEAR LENS COLOR REFERENCE GUIDE

For Industrial application purposes, this *Lens Color Reference Guide* will help you understand the functionality of "task-specific" lenses and how to determine what type of lens is best for your application and environment. It is important to understand why there are more lens color options, often necessary, than a Clear, Gray or Mirror lens. The basic rule of thumb for choosing a lens is to consider color opposites. Blue is opposite of Yellow and Red is opposite of Green. Therefore, Red lenses will absorb Green light and Yellow Lenses will absorb Blue/Ultraviolet light, and vice versa. Try on the different AOSafety lenses and learn for yourself the differences, functions and benefits of the different lens colors.

### **Yellow/Contrast Amber Lens** – absorbs Blue and Ultraviolet light

Use a Contrast Amber lens when sharpness, acuity and contrast are needed and to block high intensity blue lighting such as UV and in Curing Operations. #1 Use is UV absorption.

- Filters out hazy light that is hard on the eyes (everything seems brighter)
- Good for working outside at Dawn and Dusk
- Good for hazy, overcast or foggy days (because of the blue/gray light, similar to the function of a fog light)
- Should not be used where protection from infrared radiation is required or for night time driving

### **Red/Vermilion Lens** – absorbs some Green light

Sharpens visual acuity and provides a contrast similar to the Contrast Amber lens. Some people prefer the Vermilion to the Amber lens when choosing a lens to sharpen visual acuity.

- Good for inspections because you can see defects better - circuit boards, miniature components, assembly items, etc.
- Filters out light that is hard on the eyes
- Not as good for outside at Dawn or Dusk as a Contrast Amber lens

### **Green/I.R. Shade Lens** – blocks Red/Infrared (I.R.) light

Use any place where there is heat.

- Good for metal making, furnace work, trash incineration and open flames
- Protects against glare, ultraviolet and infrared radiations
- Available in Shade 3.0 or 5.0

### **Gray/Silver Mirror/Blue Mirror Lenses** – reduce glare and bright light

Use to reduce glare and/or to decrease visible brightness

- Good for outdoor applications where a task specific lens is not required
- Can still recognize traffic and warning signals
- Provides good color recognition (utility workers and linespeople)
- Mirror reflects light, reducing the amount of light that passes through the lens

### **Indoor/Outdoor Lens - reduces glare and bright light**

The Indoor/Outdoor Lens tones everything down and provides excellent vision in both indoor and outdoor lighting.

- Good for applications where working both indoors and outdoors is required.
- Allows people to wear the **same pair** of eyewear in both indoor and outdoor environments
- The AOSafety Ultimate Indoor/Outdoor Mirror lens is the only Indoor/Outdoor lens that reduces backside reflection - so workers won't complain about seeing the reflection of their eyes on the backside of the lens, which is not only distracting but common with other Indoor/Outdoor lenses.

### **Lexa MinimIzeR™ Lens - reduces infrared (I.R.) with excellent UV absorption**

Use in low light welding applications.

- Developed specifically for people around low light welding applications.
- Helps protect against some infrared radiation
- Helps protect against "flash burn", a common and damaging hazard that occurs when workers are exposed to welding arcs.
- The neutral gray color of the MinimIzeR lens has a high visible transmittance of 50%, resulting in excellent visual acuity
- Solves color recognition problems that are encountered with green shaded lenses (most other welding eyewear are an unattractive dark green/pea green color).

### **Arc-Block™ Lens - protects against accidental electrical arc (UV and I.R.)**

Designed especially to provide protection to linespeople and utility workers from the eye hazards of accidental electrical arc.

- Protects against UV and "flash burn"
- Absorbs Infrared (I.R.) to a level equal to a Shade 2.5 lens
- Provides the best possible protection and visible acuity given the fact that the usual eye protection device used in work environments that involve accidental arcing is a spectacle
- Provides better color recognition than green shaded lenses

### **AOSafety Clear Lens - protects against UV**

General-purpose safety glass.

- Provides maximum visual acuity and maximum color recognition

### **GlareX™ Polarized Lens - protects against reflected glare**

Designed for outdoor use where reflected glare from water, snow, cement, and other hard surfaces exists.

- Protects against UV
- Provides good color recognition
- Outdoor applications only

### **Sodium Blue Lens - reduce glare and bright light**

Developed to be used in semiconductor fabrication, photolithography and similar industries where there is a medium to high levels of yellow incandescent/fluorescent lamps, or high and low pressure sodium vapor lighting.

- Eliminates glare, eye stress, and fatigue often occurring in monochromatic (single color) yellow lit environments
- Useful as a general glare reducer in work environment where there is strong glare from bright lighting
- Should not be used for glass blowing
- The AOSafety Sodium Blue Lens is a "special purpose" lens as defined by ANSI Z87.1 and thus should only be used after a hazard assessment has been completed by safety personnel.

Lit code 32114 Rev. 11/05

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