

Lens Colors & Functions



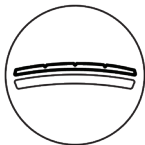
3M Pressure Diffusion Temple Technology

Eyewear temples self-adjust to a wide range of head sizes, diffusing pressure over the ear and enhancing comfort.



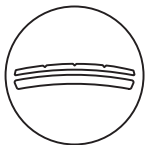
Adjustable Ratchet Temples

Adjusts the pantoscopic tilt of the lens to help accommodate cheek bone height and improve comfort and fit.



3M™ Scotchgard™ Protector Anti-Fog Coating

Resists fog 11x longer than traditional 3M anti-fog coatings, and remains effective for up to 25 washings with water*. Coating is tested to EN168 N & K for anti-fog and anti-scratch, and meets Anti-fog Performance (X) requirements of ANSI/ISEAZ87.1-2020.



3M™ Anti-Fog Plus Coating

Resists fog 11x longer than traditional 3M anti-fog coatings, and remains effective for up to 10 washings with water*. Coating is tested to EN168 N for anti-fog performance, and meets Anti-fog Performance (X) requirements of ANSI/ISEA Z87.1-2020.



Brow Guard

Additional top coverage during impact and leaves room to help airflow.



Foam Gasket

Helps limit eye exposure to debris but not as tight as a goggle.



Goggles

Designed to seal to the face. Can be splash/droplet, dust and/or fine dust rated.



Cord Control System (CCS)

Designed to keep eyewear and earplugs attached, untangled and ready to use.



CLEAR

Highest visual acuity and color recognition



POLARIZED

Reduces overall brightness, glare and reflected light



VERMILLION

Helps improve visual acuity and contrast



GRAY

Reduces overall brightness of visible light



BROWN

Reduces overall brightness, typically allowing color recognition



BLUE

(excl. "sodium blue")

Reduces brightness and glare from yellow light sources. Not intended for use in glass blowing.



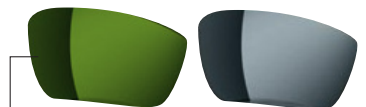
INDOOR/OUTDOOR

Slightly reduces overall brightness of visible light



AMBER

Increases contrast by filtering hazy and blue-colored light



INFRARED FILTERS

Reduces infrared radiation



PHOTOCHROMIC

Darkens when exposed to UV light (outdoors) and lightens when UV light is reduced (indoors)



ORANGE

Reduces blue light in specific applications, e.g., blue light curing



MIRRORED

Reflects light sources, helping reduce brightness

*Based on 3M internal testing of tap water wash cycles followed by anti-fog testing per EN168 test method.

Lens Tint Guide

This lens selection guide will help you understand the need for different color lenses and lens types for industrial applications. It will also help you determine what type of lens is best for your application and environment.

Lens Color	Lens Properties/Use	% of VLT*	Suggested Applications or Environments
Clear	Maximum amount of light reaches the eye for good vision and acuity.	~85%+	General everyday eye protection
Gray	Reduces brightness and glare from the sun	~10%-15%	Mainly outdoor, daytime use in sunny conditions
Brown, Bronze, Espresso	Reduces brightness and glare from the sun	~15%-20%	Mainly outdoor, daytime use in sunny conditions, with an increase of light transmittance versus gray
Mirror	Reduces brightness and glare from the sun Reduces brightness and glare from the sun	~10%-25%	Mainly outdoor, daytime use in sunny conditions
Indoor / Outdoor	Reduces brightness and glare when working both indoors and outdoors.	~50%	For tasks requiring frequent movement indoor to/ from outdoor. Loading docks, forklift drivers, construction or similar jobs.
Yellow / Amber	For use in applications where there is high levels of yellow or sodium vapor lighting and glare	~85-92%	Good for inspection tasks and hazy, overcast or foggy days. Never use for night driving.
Blue	For use in applications where there is high levels of yellow or sodium vapor lighting and glare	~55-60%	These conditions may exist in the semi-conductor industry and sometimes in food processing plants.
Vermillion	Vermillion lenses will sharpen visual acuity and provide contrast similar to, but not as dramatic as amber lenses	~25%-50%	Helps workers performing visual inspection of circuit boards, miniature components, and assembly work under fluorescent light. May also serve as a alternative to Indoor/Outdoor gray.
Orange	For use where UV lamps are used for curing materials	~40-45%	UV Lamp applications for curing paints and materials and dental industry.
Light Brown	For Blue Light Filtering	~60-70%	Brown lenses reduce the transmission of blue light to improve contrast.

*Visible Light Transmittance (approx. amount of light passing through the lens)