



Company Name: \_\_\_\_\_ Job Site Location: \_\_\_\_\_

Date: \_\_\_\_\_ Start Time: \_\_\_\_\_ Finish Time: \_\_\_\_\_ Foreman/Supervisor: \_\_\_\_\_

### **Topic 49: Eye and Face Protection Selection Chart**

**Introduction:** Eye or face hazards include flying particles, molten metal, liquid chemicals, corrosive materials, air contaminants, and radiation. Ensure that each employee is trained in the proper care, maintenance, useful life, and disposal of the eye and face protection equipment.

Source	Assessment of Hazard	Protection
<b>IMPACT:</b> Chipping, machining, masonry work, woodworking, sawing, drilling, chiseling, powered fastening, riveting, and sanding	Flying fragments, objects, large chips, particles, sand, dirt, etc.	Spectacles with side protection, goggles, face shields See <b>1), 3), 5), 6), 10)</b> For severe exposure, use face shield.
<b>HEAT:</b> Furnace operations, pouring, casting, hot dipping, and welding	Hot sparks	Faceshields, goggles, spectacles with side protection For severe exposure use faceshield. See <b>1), 2), 3)</b>
	Splash from molten metals	Faceshields worn over goggles. See <b>1), 2), 3)</b>
	High temperature exposure	Screen face shields, reflective face shields. See <b>1), 2), 3)</b>
<b>CHEMICALS:</b> Acid and chemical handling Degreasing plating	Splash	Goggles, eyecup and cover types For severe exposure, use face shield. See <b>3), 11)</b>
	Irritating mists	Special-purpose goggles.
<b>DUST:</b> Woodworking, buffing, general dusty conditions	Nuisance dust	Goggles, eyecup and cover types See <b>8)</b>
<b>LIGHT and/or RADIATION</b>		
<b>Welding:</b> Electrical Arc	Optical radiation	Welding helmets or welding shields-Typical shades: 10-14 See <b>9), 12)</b>
<b>Welding:</b> Gas	Optical radiation	Welding goggles or welding face shield-Typical shades: gas welding 4-8, cutting 3-6, brazing 3-4 See <b>9)</b>
<b>Cutting, torch brazing, torch</b>	Optical radiation	Spectacles or welding face-shield-Typical shades 1.5-3 See <b>3), 9)</b>
<b>Glare</b>	Poor vision	Spectacles with shaded or special purpose lenses, as suitable See <b>9), 10)</b>

- 1) Care should be taken to recognize the possibility of multiple and simultaneous exposure to a variety of hazards. Adequate protection against the highest level of each of the hazards should be provided. Protective devices do not provide unlimited protection.
- 2) Operations involving heat may also involve light radiation. As required by the standard, protection from both hazards must be provided.
- 3) Faceshields should only be worn over primary eye protection (spectacles or goggles).
- 4) As required by the standard, filter lenses must meet the requirements for the proper shade designations. Tinted and shaded lenses are not filter lenses unless they are marked or identified as such.
- 5) As required by the standard, persons whose vision requires the use of prescription (Rx) lenses or protective devices designed to be worn over regular prescription (Rx) eyewear.
- 6) Wearers of contact lenses must also wear appropriate eye and face protection devices in a hazardous environment. It should be recognized that dusty and/or chemical environments may represent an additional hazard to contact lens wearers.
- 7) Caution should be exercised in the use of metal frame protective devices in electrical hazard areas.
- 8) Atmospheric conditions and the restricted ventilation of the protector can cause lenses to fog. Frequent cleansing may be necessary.
- 9) Welding helmets or faceshields should be used only over primary eye protection (spectacles or goggles).
- 10) Non-sideshield spectacles are available for frontal protection only, but are not acceptable eye protection for the sources and operations listed for "impact."
- 11) Ventilation should be adequate, but well protected from splash entry. Eye and face protection should be designed and used so that it provides both adequate ventilation and protects the wearer from splash entry.
- 12) Protection from light radiation is directly related to filter lens density (see number 4). Select the darkest shade that allows task performance.



**Conclusion:** Each employee is required to be trained in the proper use of all personal protective equipment to ensure personal safety.

### **Work Site Review**

Work-Site Hazards and Safety Suggestions: \_\_\_\_\_

Personnel Safety Violations: \_\_\_\_\_

**Employee Signatures:** \_\_\_\_\_  
*(My signature attests and verifies my understanding of and agreement to comply with, all company safety policies and regulations, and that I have not suffered, experienced, or sustained any recent job-related injury or illness.)*

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**Foreman/Supervisor's Signature:** \_\_\_\_\_  
*These guidelines do not supersede local, state, or federal regulations and must not be construed as a substitute for, or legal interpretation of, any OSHA regulations.*