to comply with this part, shall be provided by the employer at no cost to employees.

- (2) The employer is not required to pay for non-specialty safety-toe protective footwear (including steel-toe shoes or steel-toe boots) and non-specialty prescription safety eyewear, provided that the employer permits such items to be worn off the job-site.
- (3) When the employer provides metatarsal guards and allows the employee, at his or her request, to use shoes or boots with built-in metatarsal protection, the employer is not required to reimburse the employee for the shoes or boots.
- (4) The employer is not required to pay for:
- (i) Everyday clothing, such as longsleeve shirts, long pants, street shoes, and normal work boots; or
- (ii) Ordinary clothing, skin creams, or other items, used solely for protection from weather, such as winter coats, jackets, gloves, parkas, rubber boots, hats, raincoats, ordinary sunglasses, and sunscreen.
- (5) The employer must pay for replacement PPE, except when the employee has lost or intentionally damaged the PPE.
- (6) Where an employee provides adequate protective equipment he or she owns pursuant to paragraph (b) of this section, the employer may allow the employee to use it and is not required to reimburse the employee for that equipment. The employer shall not require an employee to provide or pay for his or her own PPE, unless the PPE is excepted by paragraphs (d)(2) through (d)(5) of this section.
- (7) This section shall become effective on February 13, 2008. Employers must implement the PPE payment requirements no later than May 15, 2008.

NOTE TO §1926.95(d): When the provisions of another OSHA standard specify whether or not the employer must pay for specific equipment, the payment provisions of that standard shall prevail.

[58 FR 35152, June 30, 1993, as amended at 72 FR 64429, Nov. 15, 2007]

## § 1926.96 Occupational foot protection.

Safety-toe footwear for employees shall meet the requirements and specifications in American National Standard for Men's Safety-Toe Footwear, Z41.1–1967.

[58 FR 35152, June 30, 1993]

### §§ 1926.97-1926.98 [Reserved]

#### §1926.100 Head protection.

- (a) Employees working in areas where there is a possible danger of head injury from impact, or from falling or flying objects, or from electrical shock and burns, shall be protected by protective helmets.
- (b) Helmets for the protection of employees against impact and penetration of falling and flying objects shall meet the specifications contained in American National Standards Institute, Z89.1–1969, Safety Requirements for Industrial Head Protection.
- (c) Helmets for the head protection of employees exposed to high voltage electrical shock and burns shall meet the specifications contained in American National Standards Institute, Z89.2–1971.

# $\S 1926.101$ Hearing protection.

- (a) Wherever it is not feasible to reduce the noise levels or duration of exposures to those specified in Table D-2, Permissible Noise Exposures, in § 1926.52, ear protective devices shall be provided and used.
- (b) Ear protective devices inserted in the ear shall be fitted or determined individually by competent persons.
- (c) Plain cotton is not an acceptable protective device.

#### § 1926.102 Eye and face protection.

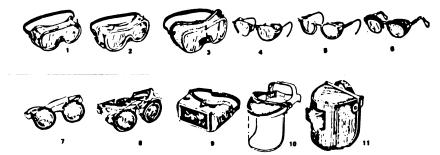
- (a) General. (1) Employees shall be provided with eye and face protection equipment when machines or operations present potential eye or face injury from physical, chemical, or radiation agents.
- (2) Eye and face protection equipment required by this Part shall meet the requirements specified in American National Standards Institute, Z87.1–1968, Practice for Occupational and Educational Eye and Face Protection.
- (3) Employees whose vision requires the use of corrective lenses in spectacles, when required by this regulation to wear eye protection, shall be protected by goggles or spectacles of one of the following types:

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- (i) Spectacles whose protective lenses provide optical correction;
- (ii) Goggles that can be worn over corrective spectacles without disturbing the adjustment of the spec-
- (iii) Goggles that incorporate corrective lenses mounted behind the protective lenses.
- (4) Face and eye protection equipment shall be kept clean and in good repair. The use of this type equipment with structural or optical defects shall be prohibited.
- (5) Table E-1 shall be used as a guide in the selection of face and eye protection for the hazards and operations noted.

## TABLE E-1-EYE AND FACE PROTECTOR SELECTION GUIDE



- 1. GOGGLES, Flexible Fitting, Regular Ventilation
- 2. GOGGLES, Flexible Fitting, Hooded Ventilation **GOBBLES**, Cushioned Fitting, Rigid Body
- 4. SPECTACLES, Metal Frame, with Sideshields S. SPECTACLES, Plastic Frame, with Sideshields
- \*8. SPECTACLES, Metal-Plastic Frame, with Sideshields
- 7. WELDING GOGGLES, Eyecup Type, Tinted Lenses (Illustrated)
- 7A. CHIPPING GOGGLES, Eyecup Type, Clear Safety Lenses (Not Illustrated)
- \*\* 8. WELDING GOGGLES, Coverspec Type Tinted Lenses (Illustrated) BA. CHIPPING GOGGLES, Coverspec Type, Clear Safety Lenses (Not Illustrate
- .. B. WELDING GOGGLES, Coverspec Type, Tinted Plate Lens
- 10. FACE SHIELD (Available with Plastic or Mesh Window)

\*Non-side shield spectacles are available for limited hazard use requiring only frontal protection.

\*\*See Table E–2, in paragraph (b) of this section, Filter Lens Shade Numbers for Protection Against Radiant Energy.

## **APPLICATIONS**

Operation	Hazards	Recommended protectors: Bold type numbers signify pre- ferred protection
Acetylene—Burning, Acetylene—Cutting, Acetylene—Welding.	Sparks, harmful rays, molten metal, flying particles.	7, 8, 9.
Chemical Handling	Splash, acid burns, fumes	2, 10 (For severe exposure add 10 over 2).
Chipping	Flying particles	1, 3, 4, 5, 6, 7A, 8A.
Electric (arc) welding	Sparks, intense rays, molten metal.	9, 11, (11 in combination with 4, 5, 6, in tinted lenses, advisable).
Furnace operations	Glare, heat, molten metal	7, 8, 9 (For severe exposure add 10).
Grinding—Light	Flying particles	1, 3, 4, 5, 6, 10.
Grinding—Heavy	Flying particles	1 , 3, 7A, 8A (For severe exposure add 10).
Laboratory	Chemical splash, glass breakage.	2 (10 when in combination with 4, 5, 6).
Machining	Flying particles	1, 3, 4, 5, 6, 10.

### APPLICATIONS—Continued

Operation	Hazards	Recommended protectors: Bold type numbers signify pre- ferred protection
Molten metals	Heat, glare, sparks, splash	7, 8, (10 in combination with 4, 5, 6, in tinted lenses).
Spot welding	Flying particles, sparks	1, 3, 4, 5, 6, 10.

- (6) Protectors shall meet the following minimum requirements:
- (i) They shall provide adequate protection against the particular hazards for which they are designed.
- (ii) They shall be reasonably comfortable when worn under the designated conditions.
- (iii) They shall fit snugly and shall not unduly interfere with the movements of the wearer.
  - (iv) They shall be durable.
- (v) They shall be capable of being disinfected.
  - (vi) They shall be easily cleanable.
- (7) Every protector shall be distinctly marked to facilitate identification only of the manufacturer.
- (8) When limitations or precautions are indicated by the manufacturer, they shall be transmitted to the user and care taken to see that such limitations and precautions are strictly observed.
- (b) Protection against radiant energy—
  (1) Selection of shade numbers for welding filter. Table E-2 shall be used as a guide for the selection of the proper shade numbers of filter lenses or plates used in welding. Shades more dense than those listed may be used to suit the individual's needs.

TABLE E-2—FILTER LENS SHADE NUMBERS FOR PROTECTION AGAINST RADIANT ENERGY

Welding operation	Shade number
Shielded metal-arc welding 1/16-, 3/32-, 1/8-, 5/32-	
inch diameter electrodes	10
Gas-shielded arc welding (nonferrous) 1/16-, 3/32-	1
, 1/8-, 5/32-inch diameter electrodes	11
Gas-shielded arc welding (ferrous) 1/16-, 3/32-,	
1/8-, 5/32-inch diameter electrodes	12
Shielded metal-arc welding 3/16-, 7/32-, 1/4-inch	·-
diameter electrodes	12
5/16-, 3/8-inch diameter electrodes	14
Atomic hydrogen welding	10–14
Carbon-arc welding	14
Soldering	2
Torch brazing	3 or 4
Light cutting, up to 1 inch	3 or 4
Medium cutting, 1 inch to 6 inches	4 or 5
Heavy cutting, over 6 inches	5 or 6
Gas welding (light), up to 1/8-inch	4 or 5

TABLE E-2—FILTER LENS SHADE NUMBERS FOR PROTECTION AGAINST RADIANT ENERGY—Continued

Welding operation	Shade number	
Gas welding (medium), ½-inch to ½-inch	5 or 6 6 or 8	

(2) Laser protection. (i) Employees whose occupation or assignment requires exposure to laser beams shall be furnished suitable laser safety goggles which will protect for the specific wavelength of the laser and be of optical density (O.D.) adequate for the energy involved. Table E-3 lists the maximum power or energy density for which adequate protection is afforded by glasses of optical densities from 5 through 8.

TABLE E-3-SELECTING LASER SAFETY GLASS

Intensity, CW max-	Attenuation		
imum power den- sity (watts/cm²)	Optical density (O.D.)	Attenuation factor	
10-2	5	105	
10-1	6	10 <sup>6</sup>	
1.0	7	10 <sup>7</sup>	
10.0	8	10 <sup>8</sup>	

Output levels falling between lines in this table shall require the higher optical density.

- (ii) All protective goggles shall bear a label identifying the following data:
- (a) The laser wavelengths for which use is intended;
- (b) The optical density of those wavelengths;
  - (c) The visible light transmission.

[44 FR 8577, Feb. 9, 1979; 44 FR 20940, Apr. 6, 1979, as amended at 58 FR 35160, June 30, 1993]

## § 1926.103 Respiratory protection.

Note: The requirements applicable to construction work under this section are identical to those set forth at 29 CFR 1910.134 of this chapter.

[63 FR 1297; Jan. 8, 1998]