

# PROTECTIVE CLOTHING AND PERSONAL PROTECTIVE EQUIPMENT

HRC	Protective Clothing		FR Protective Equipment
	Rating	FR Clothing	
0	Non-melting (according to ASTM F 1506-00) or Untreated Natural Fiber	Shirt (long sleeve) Pants (long)	Safety glasses or safety goggles (SR) Hearing protection (ear canal inserts) Leather gloves (AN) (Note 2)
0	Minimum Arc Rating of 4	Arc-rated long-sleeve shirt and arc-rated pants (Note 3) Alternate: Arc-rated coveralls (Note 4) Arc-rated face shield or flash suit hood (Note 7) Arc-rated jacket, parka or rainwear (AN)	Hard hat Safety glasses or safety goggles (SR) Hearing protection (ear canal inserts) Leather gloves (Note 2) Leather work shoes (AN)
2	Minimum Arc Rating of 8	Arc-rated long-sleeve shirt and Arc-rated pants (Note 5) Alternate: arc-rated coveralls (Note 6) Arc-rated face shield or flash suit hood (Note 7) Arc rated jacket, parka or rainwear (AN)	Hard hat Safety glasses or safety goggles (SR) Hearing protection (ear canal inserts) Leather gloves (Note 2) Leather work shoes
2 <sup>+</sup>	Minimum Arc Rating of 8	Arc-rated long-sleeve shirt and arc-rated pants (Note 5) Alternate: arc-rated coverall (Note 6) Arc-rated face shield or a flash suit hood (Note 10) Arc-rated jacket, parka or rainwear (AN)	Hard hat Safety glasses or safety goggles (SR) Hearing protection (ear canal inserts) Leather gloves (Note 2) Leather work shoes
3	Minimum Arc Rating of 25	Arc-rated long-sleeve shirt (AR) (Note 8) Arc-rated pants (AR) (Note 8) Arc-rated coverall (AR) (Note 8) Arc-rated flash suit jacket (AR) (Note 8) Arc-rated flash suit pants (AR) (Note 8) Arc-rated flash suit hood (Note 8) Arc-rated jacket, parka or rainwear (AN)	Hard hat FR hard hat liner (AR) Safety glasses or safety goggles (SR) Hearing protection (ear canal inserts) Arc-rated gloves (Note 2) Leather work shoes
4	Minimum Arc Rating of 40	Arc-rated long-sleeve shirt (AR) (Note 9) Arc-rated pants (AR) (Note 9) Arc-rated coverall (AR) (Note 9) Arc-rated flash suit jacket (AR) (Note 9) Arc-rated flash suit pants (AR) (Note 9) Arc-rated flash suit hood (Note 9) Arc-rated jacket, parka or rainwear (AN)	Hard hat FR hard hat liner (AR) Safety glasses or safety goggles (SR) Hearing protection (ear canal inserts) Arc-rated gloves (Note 2) Leather work shoes

**AN** = As needed (optional)

**AR** = As required

**SR** = Selection required

**Notes:**

**1.** See Table 130.7(C)(II). Arc rating for a garment or system of garments is expressed in cal/cm<sup>2</sup>.

**2.** If rubber insulation gloves with leather protectors are required by Table 130.7(C) (9), additional leather or arc-rated gloves are not required. The combination of rubber insulation gloves with leather protectors satisfies the arc flash protection requirement.

**3.** The FR shirt and FR pants used for Hazard/Risk Category 1 shall have a minimum arc rating of 4.

**4.** Alternate is to use FR coveralls (minimum arc rating of 4) instead of FR shirt and FR pants.

**5.** FR shirt and FR pants used for Hazard/Risk Category 2 shall have a minimum arc rating of 8.

**6.** Alternate is to use FR coveralls (minimum arc rating of 8) instead of FR shirt and FR pants.

**7.** A face shield with a minimum arc rating of 4 for Hazard/Risk Category 1 or a minimum arc rating of 8 for Hazard/Risk Category 2, with wrap-around guarding to protect not only the face, but also the forehead, ears and neck (or alternatively an arc-rated arc flash suit hood), is required.

**8.** An alternate is to use a total FR clothing system and hood, which shall have a minimum arc rating of 25 for Hazard/Risk Category 3.

**9.** The total clothing system consisting of FR shirt and pants and/or FR coveralls and/or arc flash coat and pants and hood shall have a minimum arc rating of 4 for Hazard/Risk Category 4.

**10.** Alternate is to use a face shield with a minimum arc rating of 8 and a balaclava (sock hood) with a minimum arc rating of 8 and which covers the face, head and neck except for the eye and nose areas.

