

Assigned Protection Factors

IMPORTANT NOTE

Table A and notes are from OSHA's Respiratory Protection Standard: 29 CFR 1910.134.

Table A. Assigned Protection Factors⁵

Type of Respirator ^{1,2}	Quarter Mask	Half Mask	Full Facepiece	Helmet/Hood	Loose-Fitting Facepiece
1. Air-Purifying Respirator	5	10 ³	50	—	—
2. Powered Air-Purifying Respirator (PAPR)	—	50	1,000	25/1,000 ⁴	25
3. Supplied-Air Purifying Respirator (SAR) or Airline Respirator					
• Demand mode	—	10	50	—	—
• Continuous flow mode	—	50	1,000	25/1,000 ⁴	25
• Pressure-demand or other positive-pressure mode	—	50	1,000	—	—
4. Self-Contained Breathing Apparatus (SCBA)					
• Demand Mode	—	10	50	50	—
• Pressure-demand or other positive-pressure mode (e.g., open/closed circuit)	—	—	10,000	10,000	—

- Employers may select respirators assigned for use in higher workplace concentrations of a hazardous substance for use at lower concentrations of that substance, or when required respirator use is independent of concentration.
- The assigned protection factors in Table 1 are only effective when the employer implements a continuing, effective respirator program as required by this section (29 CFR 1910.134), including training, fit testing, maintenance, and use requirements.
- This APF category includes filtering facepieces, and half masks with elastomeric facepieces.
- The employer must have evidence provided by the respirator manufacturer that testing of these respirators demonstrates performance at a level of protection of 1,000 or greater to receive an APF of 1,000. This level of performance can best be demonstrated by performing a WPF or SWPF study or equivalent testing. Absent such testing, all other PAPRs and SARs with helmets/hoods are to be treated as loose-fitting facepiece respirators, and receive an APF of 25.
- These APFs do not apply to respirators used solely for escape. For escape respirators used in association with specific substances covered by 29 CFR 1910 subpart Z, employers must refer to the appropriate substance-specific standards in that subpart. Escape respirators for other IDLH atmospheres are specified by 29 CFR 1910.134 (d)(2)(ii).

Table B. 3M Hoods and Helmets with APF of 1000

Hood or Helmet Part Number	NIOSH Approved Air Sources	Test Method	APF
BE-10	<ul style="list-style-type: none"> Breathe Easy™ Air-Mate™ TR-300 TR-600 	SWPF ¹	1,000
BE-10BR	<ul style="list-style-type: none"> Breathe Easy™ 	SWPF ²	1,000
H-410	<ul style="list-style-type: none"> TR-300 TR-600 GVP Supplied Air 	SWPF ⁴ WPF ⁹	1,000
H-420	<ul style="list-style-type: none"> TR-300 TR-600 GVP Supplied Air 	WPF ³	1,000
H-610	<ul style="list-style-type: none"> TR-300 TR-600 GVP Supplied Air 	SWPF ⁴	1,000
L-901 L-905	<ul style="list-style-type: none"> TR-300 GVP Supplied Air 	WPF ⁶	1,000