Respirator Selection

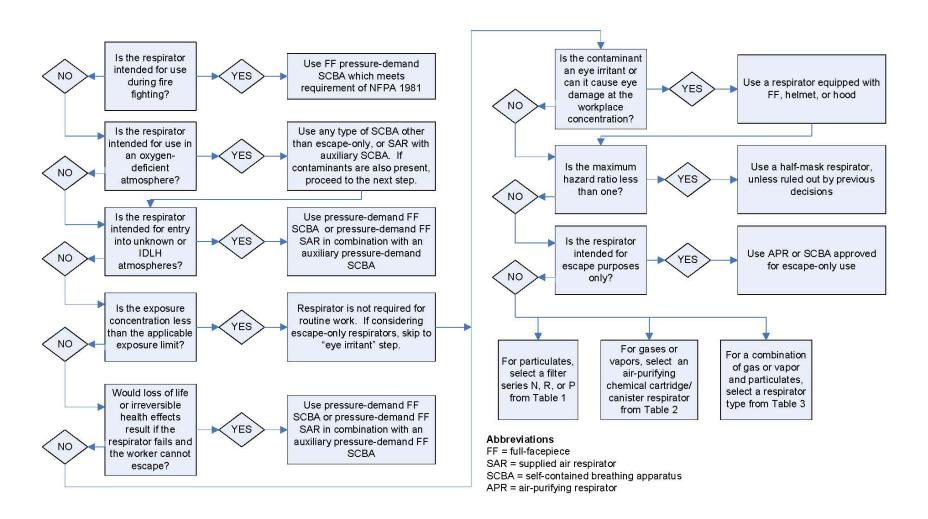


Table 1. Particulate Respirators

Assigned protection factor	Type of Respirator
5	Quarter mask respirator
	Any air-purifying elastomeric half-mask respirator equipped with appropriate type of particulate filter. ²
	Appropriate filtering facepiece respirator. ^{2,3}
	Any air-purifying full facepiece respirator equipped with appropriate type of particulate filter. ²
	Any negative pressure (demand) supplied-air respirator equipped with a half-mask.
25	Any powered air-purifying respirator equipped with a hood or helmet and a high efficiency (HEPA) filter.
	Any continuous flow supplied-air respirator equipped with a hood or helmet.
50	Any air-purifying full facepiece respirator equipped with N-100, R-100, or P-100 filter(s).
	Any powered air-purifying respirator equipped with a tight-fitting facepiece (half or full facepiece) and a high-efficiency filter.
	Any negative pressure (demand) supplied-air respirator equipped with a full facepiece.
	Any continuous flow supplied-air respirator equipped with a tight-fitting facepiece (half or full facepiece).
	Any negative pressure (demand) self-contained respirator equipped with a full facepiece.
1,000	Any pressure-demand supplied-air respirator equipped with a half-mask.
2,000	Any pressure-demand supplied-air respirator equipped with a full facepiece.
10,000	Any pressure-demand self-contained respirator equipped with a full facepiece.

Any pressure-demand supplied-air respirator equipped
with a full facepiece in combination with an auxiliary
pressure-demand self-contained breathing apparatus.

¹ The protection offered by a given respirator is contingent upon (1) the respirator user adhering to complete program requirements (such as the ones required by OSHA in 29CFR1910.134), (2) the use of NIOSH-certified respirators in their approved configuration, and (3) individual fit testing to rule out those respirators that cannot achieve a good fit on individual workers.

² Appropriate means that the filter medium will provide protection against the particulate in question.

³ An APF of 10 can only be achieved if the respirator is qualitatively or quantitatively fit tested on individual workers.

Table 2. Gas/Vapor Respirators

Assigned protection ¹ factor	Type of Respirator
10	Any air-purifying half mask respirator equipped with appropriate gas/vapor cartridges. ²
	Any negative pressure (demand) supplied-air respirator equipped with a half mask.
25	Any powered air-purifying respirator with a loose-fitting hood or helmet equipped with appropriate gas/vapor cartridges. ²
	Any continuous flow supplied-air respirator equipped with a hood or helmet.
50	Any air-purifying full facepiece respirator equipped with appropriate gas/vapor cartridges ² or gas mask (canister respirator). ²
	Any powered air-purifying respirator equipped with a tight-fitting facepiece (half or full facepiece) and appropriate gas/vapor cartridges or canisters. ²
	Any negative pressure (demand) supplied-air respirator equipped with a full facepiece.
	Any continuous flow supplied-air respirator equipped with a tight-fitting facepiece (half or full facepiece).
	Any negative pressure (demand) self-contained respirator equipped with a full facepiece.
1,000	Any pressure-demand supplied-air respirator equipped with a half-mask.
2,000	Any pressure-demand supplied-air respirator equipped with a full facepiece.
10,000	Any pressure-demand self-contained respirator equipped with a full facepiece.
	Any pressure-demand supplied-air respirator equipped with a full facepiece in combination with an auxiliary pressure-demand self-contained breathing apparatus.

¹ The protection offered by a given respirator is contingent upon (1) the respirator user adhering to complete program requirements (such as the ones required by OSHA in 29CFR1910.134), (2) the use of NIOSH-certified respirators in their approved configuration, and (3) individual fit testing to rule out those respirators that cannot achieve a good fit on individual workers.

² Select a cartridge/canister certified to be used for the specific class of chemicals or the specific gas/vapor found in your workplace.

Table 3. Combination Gas/Vapor and Particulate Respirators

Assigned protection ¹ factor	Type of Respirator
10	Any air-purifying half-mask respirator equipped with appropriate gas/vapor cartridges ² in combination with appropriate type of particulate filter. ³
	Any full facepiece respirator with appropriate gas/vapor cartridges ² in combination with appropriate type of particulate filter. ³
	Any negative pressure (demand) supplied-air respirator equipped with a half-mask.
25	Any powered air-purifying respirator with a loose-fitting hood or helmet that is equipped with an appropriate gas/vapor cartridge ² in combination with a high-efficiency particulate filter.
	Any continuous flow supplied-air respirator equipped with a hood or helmet.
50	Any air-purifying full facepiece respirator equipped with appropriate gas/vapor cartridges ² in combination with an N-100, R-100 or P-100 filter or an appropriate canister ² incorporating an N-100, P-100 or R-100 filter.
	Any powered air-purifying respirator with a tight-fitting facepiece (half or full facepiece) equipped with appropriate gas/vapor cartridges ² in combination with a high-efficiency filter or an appropriate canister ² incorporating a high-efficiency filter.
	Any negative pressure (demand) supplied-air respirator equipped with a full facepiece.
	Any continuous flow supplied-air respirator equipped with a tight-fitting facepiece (half or full facepiece).
	Any negative pressure (demand) self-contained respirator equipped with a full facepiece.
1,000	Any pressure-demand supplied-air respirator equipped with a half-mask.
2,000	Any pressure-demand supplied-air respirator equipped with a full facepiece.
10,000	Any pressure-demand self-contained respirator equipped with a full facepiece.
	Any pressure-demand supplied-air respirator equipped with a full facepiece in combination with an auxiliary

pressure-demand self-contained breathing apparatus.

- ² Select a cartridge/canister certified to be used for the specific class of chemicals or the specific gas/vapor found in your workplace.
- ³ Appropriate means that the filter medium will provide protection against the particulate in question.

¹ The protection offered by a given respirator is contingent upon (1) the respirator user adhering to complete program requirements (such as the ones required by OSHA in 29CFR1910.134), (2) the use of NIOSH-certified respirators in their approved configuration, and (3) individual fit testing to rule out those respirators that cannot achieve a good fit on individual workers.