Filtering Facepiece (Dust mask) vs. Half Mask (Elastomeric) Respirators

Definitions:

1. **Filtering Facepiece (Dust mask)** – a negative pressure particulate respirator with a filter as the integral part of the facepiece or with the entire facepiece composed of the filtering medium.
2. **Half Mask (Elastomeric)** – a negative pressure respirator with a rubber facepiece and a separate filtering medium i.e. cartridge, canister, etc.
3. **Assigned protection factor (APF)** – the workplace level of respiratory protection that a respirator or class of respirators is expected to provide to employees when the employer implements a continuing, effective respiratory protection program.

*Table 1 below is from the Occupational Safety and Health Administration (OSHA), 29CFR1910.134, Respiratory Protection.

<table>
<thead>
<tr>
<th>TABLE 1 – ASSIGNED PROTECTION FACTORS</th>
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<tbody>
<tr>
<td>Respirator Type</td>
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<td>Air Purifying</td>
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*May use respirators assigned for higher concentrations in lower concentrations or when required use is independent of concentration.

*These APF’s are only effective when employer has a continuing, effective respirator program per 1910.134.

*This APF category includes filtering facepieces and elastomeric facepieces.

*Must have manufacturer test evidence to support an APF of 1,000 or less these respirators receive an APF of 25.

*These APFs do not apply to escape-only respirators. Escape respirators must conform to 1910.134(d)(2)(ii) or OSHA’s substance specific standards, if used with those substances.

**Table explanation:** The two respirators defined in #1 and #2 above fall under the category of air purifying. Looking across the table and under “Half Mask”, there is a “310”. Underneath the table is the sub note explanations. #3 says, “This APF category includes filtering facepieces and elastomeric facepieces”. Therefore, both the filtering facepiece (dust mask) and half mask (elastomeric) have the same APF of 10. This is from a particulate standpoint only because filtering facepieces do not have the ability to protect against vapor exposures.

**NOTE:** In order for this equal comparison to hold true, both types of respirators must be NIOSH (National Institute for Occupational Safety and Health) certified and the same classification such as N95, P100, etc. Also, both must be worn, adjusted, and cared for per the manufacturer’s instructions to provide the level of protection they are designed for.

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