How to Wear a Dust Mask

**Filtering facepiece respirator**

1. Unfold the mask in a cup shape.
2. Place mask in your hands with straps hanging down.
3. Place over your chin and mouth with one hand. Position the strap above your ears and behind your head.
4. Flatten edges of the mask to remove any gaps from the face.
5. Adjust nose clip to make the mask fitted.
6. Use both hands to make sure that the mask is in full contact with the face.

**Dust mask with separate filter**

1. Insert a filter in the case.
2. Close the filter cover until it clicks.
3. Turn the head strap over the head.
4. Fully cover your nose, mouth, and chin with the mask, and pull the neck strap.
5. Position/Connect the neck strap behind your neck.
6. Adjust the neck strap to be fitted. Use both hands to make sure the mask is close and tight.
Protect safety of everyone by choosing right masks

How to properly Wear Industrial Dust Masks

Dust masks for Industry, Medical masks for Healthcare workers, Hygiene masks for the general public

Frequently and thoroughly wash hands before, during and after work with soap and water.

Avoid contact with people feeling respiratory symptoms.

Cover your mouth and nose with a sleeve when coughing.

Use your own work suit and personal protective gear to prevent cross contamination.

Be sure to wear a mask at work if you are pregnant or aged worker.

Visit the KOSHA OSHCI website

http://miis.kosha.or.kr/oshci/main.do

Where to buy industrial dust masks

Manufacturers’ authorized sellers, supermarkets, hardware stores, or online
How to properly Wear Industrial Dust Masks

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**Industrial dust mask** is a personal protective equipment which is manufactured through safety certification process to protect workers' respiratory system from harmful substances (dust, heavy metals, etc.) in industrial fields.

* Dust is fine, powder-form substances generated or blown in the workplace [yellow dust, fine dust (PM-10, PM-2.5)], and dust work refers to work involving dust generation, for example mineral cutting and sculpting, crushing, grinding, asbestos removal, welding, etc.

**Rules on OSH Standards**

Article 32 (Distribution of Personal Protective Equipment, etc) An employer shall enable workers who work involved with hazard of dusty cargo working at a wharf to put on personal protective equipment (dust respirator) by preparing it more than workers' number.

Article 33 (Personal Protective Equipment Management) ① An employer, in case of providing personal protective equipment pursuant to this provisions, shall make a regular checkup whether it needs repair, exchange, or cleaning: Provided that it shall be otherwise in case of safety shoes, safety helmet, and goggles whose cleanliness worker need to maintain. ② An employer shall have enough dust respirator filter to exchange.

Article 34 (Exclusive Personal Protective Equipment, etc) An employer shall give out exclusive personal protective equipment and take necessary measures to prevent disease infection if it is deemed to cause infection to workers due to sharing personal protective equipment.

**What is an industrial dust mask?**

- Dust is fine, powder-form substances generated or blown in the workplace [yellow dust, fine dust (PM-10, PM-2.5)], and dust work refers to work involving dust generation, for example mineral cutting and sculpting, crushing, grinding, asbestos removal, welding, etc.

**What types of industrial dust masks are available, and what is the different from standard masks?**

Dust masks are classified depending on their dust collection efficiency and leak rates, and each grade corresponds to specific areas for use, described as follows:

- **[Special Grade]** For sources of dust that contains carcinogenic substances such as asbestos, beryllium
- **[Grade 1]** For sources of dust such as metal fume
- **[Grade 2]** For all other sources of dust

Choose a mask that:

- Is light and does not block vision.
- Has high dust collection efficiency, low aspiration/exhaustion resistance.
- Fists closely along the face, keeps airtight.
- Has an adjustable strap to tightly fit.
- Is able to discharge humid outbreathing.
- Has good sweat absorption properties in areas in contact with the face.
Properly know and wear industrial dusk mask

### KCs Mask

<table>
<thead>
<tr>
<th>Grade</th>
<th>Dust collection efficiency (% fine dust filtered)</th>
<th>Leak rate</th>
<th>Filtered substances</th>
<th>Facial aspiration resistance (Pa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special Grade</td>
<td>Blocks ≥ 99% fine dust with average diameter of 0.4~0.6μm</td>
<td>≤ 5%</td>
<td>Carcinogenic substances such as asbestos and beryllium</td>
<td>≤ 300Pa at 95 l /min ≤ 100Pa at 30 l /min</td>
</tr>
<tr>
<td>Grade 1</td>
<td>Blocks ≥ 94% fine dust with average diameter of 0.4~0.6μm</td>
<td>≤ 11%</td>
<td>Metal fume, etc.</td>
<td>≤ 240Pa at 95 l /min ≤ 770Pa at 30 l /min</td>
</tr>
<tr>
<td>Grade 2</td>
<td>Blocks ≥ 80% fine dust with average diameter of 0.4~0.6μm</td>
<td>≤ 25%</td>
<td>Other dust</td>
<td>≤ 210Pa at 95 l /min ≤ 60Pa at 30 l /min</td>
</tr>
</tbody>
</table>

#### Types

**With filtering facepiece**
- Standard
- Vent valve

**With separate filter**
- Half-face
- Full-face

### KF Mask

<table>
<thead>
<tr>
<th>Grade</th>
<th>Dust collection efficiency (% fine dust filtered)</th>
<th>Leak rate</th>
<th>Filtered substances</th>
<th>Facial aspiration resistance (Pa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KF99</td>
<td>Blocks ≥ 99% fine dust with average diameter of 0.4~0.6μm</td>
<td>≤ 5%</td>
<td>For disinfection</td>
<td>≤ 100Pa at 30 l /min</td>
</tr>
<tr>
<td>KF94</td>
<td>Blocks ≥ 94% fine dust with average diameter of 0.4~0.6μm</td>
<td>≤ 11%</td>
<td>For disinfection</td>
<td>≤ 70Pa at 30 l /min</td>
</tr>
<tr>
<td>KF80</td>
<td>Blocks ≥ 80% fine dust with average diameter of 0.6μm</td>
<td>≤ 25%</td>
<td>For yellow dust</td>
<td>≤ 60Pa at 30 l /min</td>
</tr>
</tbody>
</table>

#### Types

**Foldable/cup type**
- Standard disposable masks
- Masks that fold lengthwise
- Cup-type masks

**Replaceable filter**
- A disposable filter goes into the mask and is replaced after use.

**Vent valve**
- A vent valve on the mask eases discomfort from breathing out, but does not filter out harmful substances that may be present in outbreathing.

**Replaceable filter + vent valve**
- A vent valve on the mask plus a disposable filter. It eases discomfort from breathing out, but does not filter out harmful substances that may be present in outbreathing.

Source: Ministry of Food and Drug Safety
Choose the right mask depending on the types of harmful substances involved and environments. Masks should be kept from contaminants.

How to use
- Learn and practice how to inspect, wear, and use the mask before use.
- Check aspiration/exhaustion valve function and potential leaks before use.
- Do not add hankerchief or suchlike to the facepiece in contact with the face.
- Regularly check the filter and replace if it has or significant aspiration/exhaustion resistance.
- Keep in a clean place while resting and after use.
- Keep the aspiration/exhaustion valves clean.

How to care
- Wash the facepiece with a neutral detergent and running water; let it dry in the shade.
- Replace or dispose of the component if:
  - Back of filter media is discolored, feels abnormal odors when breathing.
  - There is imminent aspiratory resistance or perceived declines in dust collection efficiency.
  - There are damages to or deformations in facepiece, aspiration/exhaustion valve, etc.

Can I use an industrial dust mask for COVID-19 prevention?

Industrial dust masks with a vent valve discharges outbreathing without filtering, hence not recommended to the general public for COVID-19 prevention.

Instructions

1. Industrial dust masks are worn to protect the respiratory system during dust work.
2. Industrial dust masks with a vent valve discharge outbreathing without filtering, hence virus may come out through the vent valve.
3. Choose and use the right industrial dust mask the right way depending on the nature of work, dust concentration, etc.