3M Occupational Health and Environmental Safety Division
Maintenance Free Respirators

Better protection through simple selection

Protection Level ➔ Valve ➔ Shape

Clever thinking at work

FFP 1 2 3
Selecting and specifying the appropriate respiratory protective equipment can seem daunting with so many factors to consider. With our simple three-step selection system however, it’s easy to make sure the disposable respirator you choose is offering the correct levels of protection and comfort required by your employees.

**STEP ONE** Which protection factor suits your needs?

<table>
<thead>
<tr>
<th>Protection factor</th>
<th>FFP1 Respirators</th>
<th>FFP2 Respirators</th>
<th>FFP3 Respirators</th>
<th>Speciality Respirators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection factor</td>
<td>APF 4</td>
<td>APF 10</td>
<td>APF 20</td>
<td>APF 4 or 10</td>
</tr>
<tr>
<td>Typical applications</td>
<td>Low level fine dust/oil or water based mists (hand sanding, drilling and cutting)</td>
<td>Moderate level fine dust/oil or water based mists (plastering, cement, sanding and wood dust)</td>
<td>Higher level fine dust/oil or water based mists (hazardous pharmaceutical powders, biological agents and fibres)</td>
<td>Fine dust/oil or water based mists. Options for metal fume, ozone and nuisance levels of certain gases and vapours dependent on model</td>
</tr>
<tr>
<td>Easy identification</td>
<td>Identified by YELLOW straps</td>
<td>Identified by BLUE straps or valve lettering</td>
<td>Identified by RED straps or valve lettering</td>
<td>Protection level can be identified by the strap colour or valve lettering</td>
</tr>
</tbody>
</table>

**Classification explained**
When correctly used by a wearer who has passed a face fit test, an FFP1 respirator should reduce exposure to airborne particles by a factor of 4, an FFP2 by a factor of 10 and an FFP3 by a factor of 20.

**STEP TWO** Choose a valved or unvalved respirator?

**Benefits of a valved respirator**
- Reduces exhalation effort
- Cooler to wear
- Stays comfortable for longer
- Less likely to mist up eyewear

**Benefits of a non-valved respirator**
- Lower unit cost
- Prevents the wearer from contaminating their environment

**STEP THREE** What style?
Choose from our Classic, Comfort or Premium ranges or a Welding or Speciality respirator for specific applications.
Some of our ranges offer a cup-shaped and flat-fold respirator for your preference.

**Particulate Respirator Options**

<table>
<thead>
<tr>
<th>Protection factor</th>
<th>FFP1</th>
<th>FFP2</th>
<th>FFP3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unvalved</td>
<td>Valved</td>
<td>Unvalved</td>
</tr>
<tr>
<td>Premium</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Comfort</td>
<td>Cup-shape</td>
<td>8310</td>
<td>8312</td>
</tr>
<tr>
<td></td>
<td>Flat fold</td>
<td>8310</td>
<td>9312</td>
</tr>
<tr>
<td>Classic</td>
<td>Cup-shape</td>
<td>8710</td>
<td>8812</td>
</tr>
<tr>
<td></td>
<td>Flat fold</td>
<td>K101</td>
<td>K111</td>
</tr>
</tbody>
</table>

See back page for full descriptions
Our Classic series offers simple and effective protection against dust and mist. The Classic series includes the traditional 3M™ 8000 Cup-Shaped Respirator Series alongside a convenient flat fold offering (the 3M™ K100 Respirators) for easier storage.

### 3M™ 8000 Cup-Shaped Respirator Series

**Comfort**
- Traditional convex shape with nose clip and twin strap design

**Safety**
- Reliable, effective protection against fine particles

**3M™ Cool Flow™ Valve**
- Effective removal of heat and moisture build-up provides a cooler and more comfortable wear
- Removes exhaled air and minimises the risk of misting eyewear
- Available on 3M 8812 and 8822 Cup-Shaped Particulate Respirators only

### Available as:

#### FFP1
- 3M™ 8710 Cup-Shaped Particulate Respirator
  - Classification: EN 149:2001 (FFP1 NR D) APF 4

#### FFP2
- 3M™ 8810 Cup-Shaped Particulate Respirator
  - Classification: EN 149:2001 (FFP2 NR D) APF 10

#### FFP1
- 3M™ 8812 Cup-Shaped Valved Particulate Respirator
  - Classification: EN 149:2001 (FFP1 NR D) APF 4

#### FFP2
- 3M™ 8822 Cup-Shaped Valved Particulate Respirator
  - Classification: EN 149:2001 (FFP2 NR D) APF 10

### 3M™ K100 Flat Fold Respirators

The 3M K100 Respirator Range of filtering face pieces can be used in many industries where workers are exposed to dust particles and/or non-volatile liquid particles.

- **Flat design** enables product to be easily stored
- **Diamond-shaped front** allows the respirator to maintain its shape in hot and humid environments
- **Single loop strap** allows easy adjustment on the face and head
- **Exhalation valve** offers improved comfort in hot and humid environments and/or where work is physical
- **Coloured noseclip** for easy identification

### Available as:

#### FFP1
- 3M™ K101 (FFP1 NR D) Particulate Respirator
  - Unvalved
  - APF 4

#### FFP2
- 3M™ K102 (FFP2 NR D) Particulate Respirator
  - Unvalved
  - APF 10

#### FFP1
- 3M™ K111 (FFP1 NR D) Particulate Respirator
  - Valved
  - APF 4

#### FFP2
- 3M™ K112 (FFP2 NR D) Particulate Respirator
  - Valved
  - APF 10

#### FFP3
- 3M™ K113 (FFP3 NR D) Particulate Respirator
  - Valved
  - APF 20

NOW also available individually wrapped.
Comfort is a key issue when it comes to encouraging employees to wear their respirators consistently for long periods. This series sets new benchmarks in wearer comfort! The Comfort series is available in the advanced three-panel design of the 3M™ 9300 Flat Fold Respirator series as well as the brand new 3M™ 8300 Cup-Shaped Respirators.

3M™ 9300 Respirator Series

**Flat Fold – 3-Panel Design**
- Allows greater facial movement during speech
- Easy to store
- Provides comfort and style without compromising performance

**3M™ Advanced Electret Filter Material**
- Effective filtration combined with low breathing resistance
- Consistent high quality performance

**3M™ Cool Flow™ Valve**
- Effective removal of heat and moisture build-up provides a cooler and more comfortable wear
- Removes exhaled air and minimises the risk of misting eyewear
- Available on 3M 9322 and 9332 Particulate Respirators only

**Individual Packaging**
- Hygienic packaging protects the respirator from contamination before use
- Allows practical storage and dispensing in the workplace

Available as:

- **FFP1**
  - 3M™ 9310 Particulate Respirator
  - Classification: EN 149:2001 (FFP1 NR D) APF 4

- **FFP2**
  - 3M™ 9320 Particulate Respirator
  - Classification: EN 149:2001 (FFP2 NR D) APF 10

- **FFP3**
  - 3M™ 9332 Particulate Respirator
  - Classification: EN 149:2001 (FFP3 NR D) APF 20

- **FFP1**
  - 3M™ 9312 Particulate Respirator Valved
  - Classification: EN 149:2001 (FFP1 NR D) APF 4

- **FFP2**
  - 3M™ 9322 Particulate Respirator
  - Classification: EN 149:2001 (FFP2 NR D) APF 10
3M™ 8300 Respirator Series

M-Noseclip
- The noseclip is quick and easy for wearers to mould around the nose, offering greater comfort

High Performance Filter Material
- 3M™ Advanced Electret filter material helps wearers to breathe easily for more comfortable protection

3M™ Cool Flow™ Valve
- The Cool Flow Valve reduces heat and moisture build-up to offer workers comfortable protection - even in hot and humid conditions
- Available on 3M 8312, 8322 and 8833 Particulate Respirators only

Robust Outer Shell
- The shell construction offers users added durability

Cushion-Fit Lining
- The cushioned inner lining helps workers stay comfortable

Braided Headbands
- Materials have been selected for extra comfort and durability
- Colour coded headbands offer easy protection level identification

Available as:
- FFP1
  - 3M™ 8310 (FFP1 NR D) Particulate Respirator Unvalved APF 4
  - 3M™ 8312 (FFP1 NR D) Particulate Respirator Valved APF 4

- FFP2
  - 3M™ 8320 (FFP2 NR D) Particulate Respirator Unvalved APF 10
  - 3M™ 8322 (FFP2 NR D) Particulate Respirator Valved APF 10

- FFP3
  - 3M™ 8833 (FFP3 R D) Particulate Respirator Valved APF 20
  - Also features soft inner face seal!

For more information on all our products, call Occupational Health and Environmental Safety on 0870 60 800 60 (UK) and 1800 320 500 (Ireland) or visit www.3M.co.uk/ohes
Our Premium Respirators offer enhanced performance and comfort due to a number of additional advanced features including:

- Lightweight and off-the-face design
- Soft facepiece sealing ring
- Exhalation valve to reduce moisture build-up
- 4-point adjustable straps

### Soft Inner Face Seal Ring
- Improves face seal
- Increases wearer comfort
- Can be hygienically cleaned if used for longer than one shift (3M™ 105 Face Seal Cleaner)

### 3M™ Advanced Electret Filter Media
- Increased filter area helps extend the life of the respirator
- Higher capacity against dust
- Effective filtration combined with low breathing resistance
- Consistent high quality performance

### Colour Coded Valve Lettering
- Easy to recognise protection level by colour coding

### 3M™ Cool Flow™ Valve
- Effective removal of heat and moisture build-up provides a cooler and more comfortable wear
- Removes exhaled air and minimises the risk of misting eyewear

### Adjustable Braided Headbands
- Ensures a more secure feel and provides comfort to face, head and neck

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**Available as:**

- **FFP2**
  - 3M™ 8825 Particulate Respirator
  - Classification: EN 149:2001 (FFP2 R D)
  - Protection: Dust/Mist/Metal Fume
  - APF: 10

- **FFP3**
  - 3M™ 8835 Particulate Respirator
  - Classification: EN 149:2001 (FFP3 R D)
  - Protection: Dust/Mist/Metal Fume
  - APF: 20
The Speciality Respirators by 3M have been developed for particular working environments. These respirators feature an integrated activated carbon layer thus offering relief from nuisance odours below WEL*. They can be used for a wide variety of applications ranging from welding to waste sorting. The Speciality range by 3M provides lightweight, effective, comfortable and hygienic respiratory protection against dust and mist. It also provides additional relief from low levels of organic vapours or acid gases such as sulphur dioxide and hydrogen fluoride (depending on the product type).

Available as:

**FFP1**

3M™ 9906 Speciality Particulate Respirator
Classification: EN 149:2001 (FFP1 NR D)
Protection: Dust/Mist/Nuisance Level Hydrogen Fluoride
APF 4

3M™ 9913 Speciality Particulate Respirator
Classification: EN 149:2001 (FFP1 NR D)
Protection: Dust/Mist/Nuisance Level Organic Vapour
APF 4

3M™ 9914 Speciality Particulate Respirator
Classification: EN 149:2001 (FFP1 NR D)
Protection: Dust/Mist/Nuisance Level Organic Vapour
APF 4

3M™ 9915 Speciality Particulate Respirator
Classification: EN 149:2001 (FFP1 NR D)
Protection: Dust/Mist/Nuisance Level Organic Vapour
APF 4

3M™ 9922 Speciality Particulate Respirator
Classification: EN 149:2001 (FFP2 NR D)
Protection: Dust/Mist/Nuisance Level Acid Gas
APF 10

3M™ 9926 Speciality Particulate Respirator
Classification: EN 149:2001 (FFP2 NR D)
Protection: Nuisance Level Organic Vapour and Ozone Relief
APF 10

*WEL = Workplace Exposure Limit

For more information on all our products, call Occupational Health and Environmental Safety on 0870 60 800 60 (UK) and 1800 320 500 (Ireland) or visit www.3M.co.uk/ohes
3M offers two Welding Fume Respirators – the 3M™ 9925 Welding Respirator and the 3M™ 9928 Welding Respirator. Both provide lightweight and comfortable respiratory protection against dust, mist, metal fumes and ozone. The 3M 9928 Model also incorporates a soft face seal.

Robust Shell and Cup Design
- Flame retardant material minimises the effect of welding splatter
- Collapse-resistant

Soft Inner Face Seal Ring (9928 Only)
- Can be hygienically cleaned (3M™ 105 Face Seal cleaner)

3M™ Cool Flow™ Valve
- Effective removal of heat and moisture build-up provides a cooler and more comfortable wear
- Removes exhaled air and minimises the risk of misting eyewear

Carbon Layer
- Provides protection against ozone gas and relief from nuisance level odours (below WEL*)

Available as:

<table>
<thead>
<tr>
<th>FFP2</th>
<th>FFP2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M™ 9925 Welding Particulate Respirator</td>
<td>3M™ 9928 Welding Particulate Respirator</td>
</tr>
<tr>
<td>Classification: EN 149:2001 (FFP2 R D)</td>
<td>Classification: EN 149:2001 (FFP2 R D)</td>
</tr>
<tr>
<td>Protection: Dust/Mist/Ozone/ Nuisance level odours</td>
<td>Protection: Dust/Mist/Ozone/ Nuisance level odours</td>
</tr>
<tr>
<td>APF 10</td>
<td>APF 10</td>
</tr>
</tbody>
</table>

Key:

- 3M™ High Performance Filter Media
  - Combines the benefits of traditional mechanical filtration with advanced technology filtration to capture particles.

- 3M™ Cool-Resistant Welding Respirators
  - Particles are trapped throughout the lofty outer layer and then by the inner filter. This prolongs respirator life while maintaining ease of breathing.

- Activated Carbon
  - Layers of carbon in 3M™ Welding and 3M™ Specialty Respirators are designed to offer relief from the irritation of low levels (below WEL*) of specific gases and vapours.

- 3M™ Foldable Three-Panel Design
  - This design offers improved comfort, fit and communication – plus the convenience of a foldable respirator (9300 series).

- M-Noseclip
  - Nasalclip adjusts easily for fewer pressure points and greater comfort on the nose.

In the UK, wearers of these products should be fit tested in accordance with the requirements of the Control of Substances Hazardous to Health Regulations (COSHH).

*WEL = Workplace Exposure Limit

3M supports the Fit2Fit accreditation scheme for fit testers. Visit www.fit2fit.org

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