

Communication Equipment

Lite-Com Ear Defender



- 2 way short range wireless communicator
- Broad, softly padded headband
- Supplied with noise-compensated, noise-cancelling microphone and boom
- 6-position selector switch, on-off switch and volume control
- Transmitting distance 400 to 500 Mtrs
- VOX and push-to-talk mode
- SNR=31dB

Attenuation in dB

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation	N/A	17.9	25.1	29.5	38.2	32.7	37.8	40.1
Standard Deviation	N/A	4.0	2.7	3.2	2.9	3.6	4.0	3.8
Assumed Protection	N/A	13.9	22.4	26.3	35.3	29.1	33.8	36.3

PPE255

Order Code	1+	10+	25+	50+	100+	250+
Price Each						
723-0795						

Nuisance Dust Masks

Nuisance Dust Mask



- Dust masks **only** suitable for protection against non-toxic dust and powders

Disposable

- Aluminium nose bridge to mould mask to wearer's face
- Supplied in packs of 5

Re-usable

- Consists of lightweight filter holder, filter pad and face cloth
- Kit supplied with additional 5 filter pads
- Replacement filter pads and face cloth available

HS133

	Mftrs. List No.	Order Code	1+	4+	20+
5 disposable masks	18063	109-158			
Re-usable mask kit	18058	109-159			
Spare filter pad set	18059	109-160			

8500 Nuisance Dust Mask



- Relief from coarse particles of non toxic/nuisance dusts.
  - Metal nose bridge piece for ease of fitting.
  - Ultra lightweight preformed design (4g)
- This mask does **NOT** provide protection against fine dusts, fibres, mists, metal fume gases, vapours or paint spray.

50 Per Pack

Mftrs. List No.	Order Code	1+	4+	8+	12+
8500	.289-553				

Price Per Pack

3M Respiratory Protection

Respiratory Selection Guide



Airborne hazards exist in many workplace environments which, if above certain limits, may cause short and long term problems to exposed personnel. Respiratory protection reduces exposure to such hazards and the following points should be considered when selecting the appropriate device.

Selection Criteria

1. Name and form of contaminant\*
2. Potential harmful effects
3. Airborne concentration (mg/m<sup>3</sup> or parts per million)
4. Occupational Exposure Limit (OEL) for contaminant (mg/m<sup>3</sup> or parts per million) – see HSE guidance note EH 40
5. Nature and length of exposure
6. Multiply measured airborne concentration by total exposure (hours) and divide by 8 hours to ascertain 8 hour time-weighted average concentration
7. Specific regulations, approved codes of practice or guidance noted applicable
8. Divide time-weighted average airborne concentration by Occupational Exposure Limit to ascertain level of protection required
9. Select respirator with max. usage level greater than required level of protection

\* See supplier's Material Safety Data Sheets (MSDS)

**Example** (For detailed advice and guidance, see Health and Safety Executive Guidance Notes EH 40/EH 42)

Nature of contaminant :	Cobalt
Form of contaminant :	Dust
Effects :	Fibrosis and respiratory sensitivity
Concentration :	0.8mg/m <sup>3</sup>
O.E.L. :	0.1mg/m <sup>3</sup>
Total exposure time :	7 hours

Therefore

$$8 \text{ hour time weighted average concentration} = \frac{0.8 \text{ mg/m}^3 \times 7}{8} = 0.7 \text{ mg/m}^3$$

Divide T.W.A. concentration by O.E.L. = 7

Therefore

Select respirator with max. usage concentration > 7 times the O.E.L. (e.g. 3M 8800/8810 Dust/Mist respirators)

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Airborne hazards fall into two categories:

- 1) Particulate – dusts, mists, metal fumes
- 2) Gases and vapours

The degree of protection afforded by the respirators is indicated by the reference number e.g. FFP1S, in accordance with the relevant Health and Safety regulations.

The following range of respirators are all negative pressure devices which means that contaminated air passes through a filter before entering the nose and mouth.

Two styles of negative pressure respirators are available:

- 1) Maintenance free half-mask
- 2) Low maintenance half-mask

**Maintenance free:** These offer protection against particulates, gases and vapours and do not require maintenance. This exempts them from the maintenance requirements of the Control of Substances Hazardous to Health Regulations 1988 (COSHH) which stipulate the inspection, cleaning and record keeping requirements of a respiratory protection programme.

**Low maintenance:** These consist of a half-mask and broad range of attachable filters. The face mask is used with two lightweight filters mounted on each side of the face piece by means of a simple bayonet attachment.

PPE142

Maintenance-Free Respirators



Particulate Range

The following Particulate respirators are approved to EN149 and all carry appropriate CE marking.

EN149 categorises particulate half-mask respirators by their filtering efficiency:

- FFP1S – Protection factor of 4 OEL\* (lowest efficiency)
- FFP2S – Protection factor of 12 OEL
- FFP2SL – Protection factor of 12 OEL
- FFP3S – Protection factor of 50 OEL
- FFP3SL – Protection factor of 50 OEL (highest efficiency)

\*O.E.L. = Occupational Exposure Level as defined in guidance note EH40 from the Health and Safety Executive.

PPE141