



## 3M™ Peltor™ H505B Welding Helmet Ear Muff

### Product Description

The 3M™ Peltor™ H505B Welding Helmet Ear Muff available in neck band version only, is designed to be used with welding shields in particular the 3M™ Speedglas™ 9100. These ear muffs provide moderate level of attenuation that meets the needs of most welding industry applications. When correctly selected and worn these products help reduce exposure to hazardous levels of noise and loud sounds.

### Key Features

- Modern, stylish slim line cup design
- Foam and liquid sealing rings for improved comfort
- Neckband design helps improve compatibility with other protective equipment
- Relatively large space inside cup helps reduce moisture and heat build-up
- Soft wide cushions helps reduce pressure around the ears and improves comfort and wearability
- Easy to replace cushions and inserts helps keep them hygienically clean

### Applications

3M™ Peltor™ H505B Welding Helmet Ear Muff, although ideal for use in the welding industry, can also be used in a wide range of other industrial application to protect against hazardous noise and loud sounds.

Examples of typical applications include:

- Welding Industry
- Agriculture
- Automotive
- Construction
- Chemical & pharmaceutical manufacture
- Light engineering
- Woodworking

### Standard & Approval

3M™ Peltor™ H505B Welding Helmet Ear Muff is tested and CE approved against the European Standard EN352-1:2002. This product meets the Basic Safety Requirements as laid out in Annex II of the European Community Directive 89/686/EEC. This product has been examined at the design stage by the Finnish Institute of Occupational Health (FIOH), Topeliuksenkatu 41aA, FIN-00250 Helsinki, Finland (Notified Body number 0403).

### Materials

The following materials are used in the manufacture of this product.

| Component     | Materials                            |
|---------------|--------------------------------------|
| Headband      | Stainless Steel wire, PVC and Acetal |
| Cups          | ABS and TPE                          |
| Insert        | Polyether                            |
| Cushions      | Polyether and Glycerine              |
| Cushion cover | PVC                                  |
| Head strap    | Polyester                            |

### Product Range



3M™ Peltor™  
H505B Welding  
Helmet Ear Muff

## Attenuation values

### 3M™ Peltor™ H505B Welding Helmet Ear Muff

| Frequency (Hz) | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|----------------|------|------|------|------|------|------|------|
| Mf (dB)        | 11.4 | 12.3 | 24   | 23.4 | 34.3 | 38.8 | 38.7 |
| sf (dB)        | 2.6  | 2.6  | 2.7  | 2.3  | 2.5  | 2.5  | 3.8  |
| APVf (dB)      | 8.8  | 9.7  | 21.3 | 21.1 | 31.8 | 36.3 | 34.9 |

SNR = 24dB    H = 29dB    M = 20dB    L = 13dB    APVf (dB) = Mf – sf (dB)

## Accessories/Replacement

The 3M™ Peltor™ HY55 and 3M™ Peltor™ HY100A-01 Hygiene Pads can be placed on the cushions to help absorb moisture and sweat.

## Key

APVf = Assumed Protection Value

Mf = Mean attenuation value

sf = Standard deviation

H = High-frequency attenuation value (predicted noise level reduction for noise with  $L_C - L_A = -2\text{dB}$ )

M = Medium-frequency attenuation value (predicted noise level reduction for noise with  $L_C - L_A = +2\text{dB}$ )

L = Low-frequency attenuation value (predicted noise level reduction for noise with  $L_C - L_A = +10\text{dB}$ )

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level,  $L_C$  in order to estimate the effective A-weighted sound pressure level inside the ear).

3M, Peltor are trademark of 3M Company.

### Important Notice

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

## 3M Health & Safety Helpline

0870 60 800 60 (UK)

1 800 320 500 (Ireland)

### 3M Safety Solutions

#### 3M United Kingdom plc

3M Centre  
Cain Road, Bracknell  
Berkshire RG12 8HT  
Tel: 0870 60 800 60  
www.3M.co.uk/ohes

#### 3M Ireland Limited

The Iveagh Building  
The Park  
Carrickmines  
Dublin 18  
Tel: 1 800 320 500

Please recycle.  
© 3M 2011. All rights reserved.

