



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).

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