



**PRODUCT NUMBER: 1010421**  
**Mach 1 Earmuff**

[Learn more about our products at howardleight.com](http://howardleight.com)

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[Learn more about hearing conservation at hearforever.org](http://hearforever.org) >



**Overview**

**Reference Number**

1010421

**Product Type**

Hearing Protection

**Range**

Earmuffs

**Line**

Noise Blocking Earmuffs

**Brand**

Howard Leight by Honeywell

**Brand formerly known as**

BILSOM

**Industry**

- Industry
- Administration
- Agriculture
- Army - Defence
- ATEX environment
- Automotive and Part Manufacturer
- Aviation
- Building and Construction
- Catering
- Chemical Industries
- Energy or Electricity
- Fire Protection brigades
- Fishing
- Food Industries
- Foundry
- Glass Industries
- Green Spaces
- Homeland defense
- Industrial Cleaning
- Iron and steel industry
- Laboratory
- Logistics
- Maintenance
- Medical and Pharmaceutical
- Metal steel
- Mining and Quarrying
- Offshore
- Paper Industries
- Petro-chemical
- Printing Industries
- Services
- Ship Building
- Telecoms
- Textile Industries
- Transportation
- Utilities
- Water treatment
- Welding
- Wood Industries

**Product Use**

Earmuff

**Features & Benefits**

**Feature**

**ECONOMICAL DESIGN** Provides adequate protection at a low cost. **LIGHTWEIGHT** Extremely lightweight construction provides for all-day comfort. **DIELECTIRC CONSTRUCTION** Suitable for all workplaces, especially electrical environments.

**Benefit**

The Mach 1 is an economical choice for basic hearing protection in short-term work situations. Mach 1's adjustable headband fits any head size, while its super-lightweight dielectric construction provides adequate protection.

## Technical Description

### SNR (dB)

24

### H (dB)

29

### M (dB)

21

### L (dB)

14

### Attenuation Data

Frequency (Hz) Frequenz (Hz) Fréquence (Hz) 631252505001000200040008000 Mean Attenuation (dB) Mittlere Dämmung (dB) Atténuation moyenne (dB) 14.413.311.717.631.830.934.731.4 Standard Deviation (dB) Standardabweichung (dB) Déviation standard (dB) 3.82.91.82.42.92.82.44.9 Assumed Protection (dB) Angenommener (dB) Protection supposée (dB) 10.610.49.915.228.928.132.326.5

### Earmuff Construction

Plastic [or Dielectric]

### Other Material

POM, PP, PUR-E, PVC

### Dielectric

Yes

### Color

Black and Red

### Batteries Needed

None

### Weight (grs)

141

### Headband Style

Over-Head

### Sound Amplification

No

### AM/FM Radio

No

### Automatic Shut-Off Function

No

### Audio Input Jack

No

### Hi-Visibility

No

## Certifications

 E.C. Declaration of Conformity

### EC Category PPE

2

### Quality Assurance

ISO 9001 / 2000

### EC Certificate Number

IFA1501262

### EC Attestation

 EC Attestation

### EC Attestation Number

200421670

## Maintenance

### Life Cycle

Cushions should be replaced periodically to retain maximum attenuation. Use the following as a guideline for replacement of ear cushions and insert foam. General use and wear - Ear cushions and foam inserts should be replaced at least every 6 months. Heavy use or wear in humid/extreme climates - Ear cushions and foam inserts should be replaced at least every 3 months. Cracking or leakage is visible - replace ear cushions and foam inserts immediately.

### Storage Information

When not in use, the earmuffs should be stored in a clean dry container or locker. Do not use solvents or petroleum-based products. Do not immerse the earmuffs in water.

### Care Instructions

Earmuffs are an important safety product and should be inspected regularly. Its use, care and maintenance are critical to its effective performance. Earmuffs and in particular ear cushions may deteriorate with use and should be examined at frequent intervals for cracking and leakage. If the ear cushions become hard, damaged or deteriorated, they should be replaced promptly using recommended Hygiene Kits. Earmuffs should be maintained by regular cleaning. Use a mild disinfectant solution. A gentle wipe is all that is required.

## Parts & Accessories

### Accessories

Beltclip - For carrying purpose. Old Ref. # 1000252 New Ref. # 1016730 Cool II Pads - Sweat absorbing pads. Ref. # 1000365 5-pair, Ref. # 1000364 100-pair  
Optisorb - cotton sleeve slides over earcup. Ref. # 3302101  
Polar Hood - Ref. # 1016870 Lg/XLg; Ref. # 1016871 Sm/Med

## Packaging

### EAN Code

7312550104217

certificate  
no. **IFA 1501262**  
dated 2015-12-23

Translation In any case, the German original shall prevail.

European notified body  
Identification number: 0121

## EC Type-Examination Certificate

Name and address of the holder of the certificate (customer):  
Honeywell Safety Products, USA Inc.  
7828 Waterville Road  
San Diego, CA 92154  
UNITED STATES OF AMERICA

Product designation:  **earmuff Howard Leight by Honeywell MACH 1**

Type: MACH 1

Testing based on: EN 352-1:2002  
EN 13819-2:2002  
EN 13819-1:2002

Test report: 201522139 as of 2015-12-23

Further details: Intended purpose:  
Earmuff with headband / personal protective equipment according to article 8 (2) of the EC-directive 89/686/EEC (category II)

Manufacturer:  
Honeywell Safety Products, USA Inc.  
7828 Waterville Road  
San Diego, CA 92154  
USA

The product tested complies with the essential requirements of Annex II of the directive 89/686/EEC (**Personal Protective Equipment**), amended by the directives 93/68/EEC, 93/95/EEC and 96/58/EC.

The present certificate is valid until: **2020-12-22**

Further provisions concerning the validity, the extension of the validity and other conditions are laid down in the Rules of Procedure for Testing and Certification.

*mpe*



Dr. rer. nat. Peter Paszkiewicz  
Head of testing and certification body



Dr. rer. nat. Sandra Dantscher  
Certification officer

### Example showing the CE marking

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To the CE marking of PPE of category III will be added the identification number of the notified body carrying out the control measures.

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## E.C. Declaration of Conformity

**The manufacturer or its legal representative supplier in the European Community:**

Honeywell Safety Products Europe

**Declares that the Personal Protective Equipment described here after conforms to the provisions of the European Council Directive 89/686/CEE:**

Designation: Mach 1 Earmuff

Reference: 1010421

Standard(s): EN-352-1:2002

**This PPE is the object of the below EC examination certificate n°:**

IFA1501262

**Delivered by:**

Institut für Arbeitsschutz des DGUV (IFA)  
Prüf-und Zertifizierungsstelle im DGUV Test  
Alte Heerstraße 111  
53754 Sankt Augustin  
Deutschland

Drawn up in Germany, on the 10/06/2016

**By:**

**Division:** Hearing Protection

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[www.honeywellsafety.com](http://www.honeywellsafety.com)