

prEN 166 : March 1994

PERSONAL EYE-PROTECTION

SPECIFICATIONS

TEST REPORT NO: 95.07.15

CLIENT: INSPEC Certification Limited
The Buckland Wharf
Buckland Wharf
Aylesbury
Buckinghamshire HP22 5LQ

MANUFACTURER: Peltor AB
Box 2341
Malmstengatan 19
S-331 02 Varnamo
Sweden

MODEL: V40F Visor with H7A ear muff attached

DATE SAMPLES RECEIVED: 3 April 1995

DATE ORDER RECEIVED: 25 April 1995

DATES OF TESTS: 15 - 16 June 1995

Checked: *A. Royle* Approved: *F. Pennington*
A. ROYLE F. PENNINGTON

Issued: *8 AUGUST 1995*

The samples tested will be destroyed four weeks from the date of this report unless otherwise instructed

INTRODUCTION:

INSPEC Certification Limited submitted ten samples of Peltor AB's model V40F visor and ten samples of Peltor AB's model H7A ear muff, for testing as units to certain specified requirements of prEN 166 : March 1994.

It will be helpful to refer to the Standard whilst reading this report.

PROCEDURES:

The samples submitted for testing, were identified as follows:-

V40D visor* : E33401 - E33410

H7A ear muff: E33101A - E33110A

*Note: Each V40F visor comprised a 4F ocular, V431 visor holder and V413 visor clips.

For simplicity, the first four digits of the above sample identifications have been omitted throughout the remainder of this report.

Testing was performed as specified in the relevant clauses of prEN 166 : March 1994, except where stated below under certain "Procedural Notes".

PROCEDURAL NOTES:

1. prEN 166 includes tables which, for individual tests, specify the necessary number of samples to be tested, together with the sample identification numbers. The required order of testing is also presented. However, due to certain inconsistencies in the tables, they were not followed exactly.
2. All optical measurements were taken based upon the visual centres of the oculars tested.
3. When testing samples in order to obtain results for spherical and astigmatic refractive powers, multiple images of the target were seen. The samples, however, were not classed as defective. Instead, focus positions were considered to be "average" positions for these multiple images and measurements taken correspondingly.
4. When assessing to the requirements for Protection against high-speed particles at medium energy impact, failures occurred. On the request of the client, the samples were tested for low energy impact.

RESULTS:

Please refer to the Standard for details of the requirements of the tests performed.

7.1.5.1 Stability at elevated temperature

Visors 01 to 03 were mounted on to ear muff samples 01A to 03A respectively, and the units assessed. See "Procedural notes - 3".

Following conditioning no sample tested showed any apparent deformation.

Table 1 - Spherical refractive power (after conditioning)

Sample	01	02	03
Left (m ⁻¹)	-0.02	-0.02	-0.03
Right (m ⁻¹)	-0.01	-0.01	-0.03

RESULTS (continued):**Table 2 - Astigmatic refractive power (after conditioning)**

Sample	01	02	03
Left (m ⁻¹)	0.03	0.03	0.02
Right (m ⁻¹)	0.04	0.04	0.02

Table 3 - Difference in prismatic refractive power (after conditioning)

Sample	01	02	03
Horizontal (cm/m)	0.10	0.13	0.10
Vertical (cm/m)	0.08	0.05	0.10
Base in or out	out	out	out

7.2.2 Protection against high speed particles

Visors were combined with ear muffs and tested as detailed below. See "Procedural Notes - 4".

<u>Visor</u>	<u>Ear muff</u>	<u>Impact Energy</u>	<u>Position</u>
03	03A	Low	1
04	04A	Low	2
05	05A	Low	3
06	06A	Medium	4
07	07A	Low	1
08	08A	Low	2
09	09A	Low	3
10	10A	Low	4
02	01A	Low	4

When testing visor 06 attached to its respective ear muff, the visor became dislodged from the right side mounting lug of the carrier causing the visor and visor clip to release from the carrier on this side.

Due to the failure detailed above all subsequent impact testing was performed at low energy, as requested by the client.

When testing at low energy none of the samples tested exhibited any of the defects listed in the Standard. For each of the samples tested, all of the specified impact points on the headform were covered.

Note: Assessment to the requirements of clause 7.1.4.2 "Increased robustness" had not been requested for these samples.

CONCLUSIONS

The samples of Peltor AB's model V40F visor and H7A ear muffs, satisfied as eye protectors of optical class 1 providing protection against high-speed particles of low energy impact, the requirements of prEN 166 : March 1994 which were assessed.

Please refer to the Results section of this report to determine which requirements had been requested for assessment.

INSPEC

EC TYPE-EXAMINATION CERTIFICATE NO: 363

Product Description:-

Personal Eye Protection

Product Designation/Identification/Model number:-


Visor Range as per schedule

Manufactured by:-

Peltor AB
Box 2341
S-33102 Varnamo
Sweden

When assessed and examined against harmonised standards EN166:1995, EN170:1994 and EN172:1994 are found to be in conformity with Council Directive 89/686/EEC relating to personal protective equipment

Signed for and on behalf of INSPEC (Notified Body No: 0194).


.....
K J Warren,
Manager, Certification Services

Date: 13th December 1995

For terms and conditions of issue, see page 2

Page 1 of 2

Amendment: TWO

Terms and Conditions associated with INSPEC
EC Type-Examination Certificate No: 363

Reference Documents:-

- | | | | |
|------|----------------|---|---|
| i) | Test Report | - | INSPEC Laboratories 95.06.75,
95.07.12 - 17, 95.10.12, 97.11.87,
97.11.88 , 02.01.08 and 02.12.15 |
| ii) | Technical File | - | INSPEC ref TF/363 |
| iii) | Quality Plan | - | P950896 |

Conditions attached to the issue of this certificate:

- i) Marking and instructions have been assessed in the English language only. It is the Manufacturers/Authorised Representatives responsibility to obtain and supply language versions acceptable to the country where the product is to be sold.
- ii) Any changes to the product, technical file or quality manual/quality plan shall be immediately notified to INSPEC.
- iii) The Manufacturer/Authorised Representative shall comply at all times with INSPEC Regulations governing CE Product Certification.
- iv) This Certificate remains the property of INSPEC and may be withdrawn if any of the conditions attached to its issue are not complied with.

CERTIFICATION SCHEDULE

COMPANY: Peltor AB

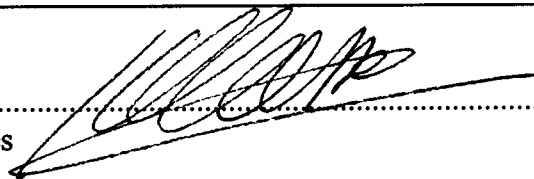
SCHEDULE NO: THREE

CERTIFICATE NO: EC 363

DATE: 17th February 2003

Visor	Mounting	Performance	
V4D/Clear	G22C Helmet/H3 Ear Muff	H.S.P. - Low Energy	Optical Class 2
V4F/Clear	G22C Helmet/H3 Ear Muff	H.S.P. - Low Energy	Optical Class 1
V2A/Clear	G22C Helmet/H3 Ear Muff	H.S.P. - Low Energy	Optical Class 1
V2C/Clear	G22C Helmet/H3 Ear Muff	H.S.P. - Low Energy	Optical Class 1
V40D/Clear	A-Band Ear Muffs	H.S.P. - Low Energy	Optical Class 2
V40F/Clear	A-Band Ear Muffs	H.S.P. - Low Energy	Optical Class 1
V4E/Tinted	G22C Helmet/H3 Ear Muff	H.S.P. - Low Energy	Scale 5-2
V40E/Tinted	A-Band Ear Muffs	H.S.P. - Low Energy	Scale 5-2
V4H/Tinted	G22C Helmet/H3 Ear Muff	H.S.P. - Low Energy Short Circuit Electric Arc Protection against Molten Metals and Hot Solids	Optical Class 1 Scale 3-1.2
V4K/Clear	G22C Helmet/H3 Ear Muff	H.S.P. - Low Energy Short Circuit Electric Arc Protection against Molten Metals and Hot Solids	Optical Class 1 Scale 3-1.2

Signed for and on behalf of INSPEC
K J Warren, Manager Certification Services



CERTIFICATION SCHEDULE

COMPANY: Peltor AB

SCHEDULE NO: INDEX

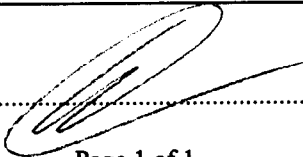
CERTIFICATE NO: EC 363

DATE: 17th February 2003

Page 1 of 3	-	Withdrawn
Page 2 of 3	-	Withdrawn
Page 3 of 3	-	Withdrawn
Page 1 of 2 (Amendment ONE)	-	Withdrawn
Page 2 of 2 (Amendment ONE)	-	Withdrawn
Page 2 of 2 (Amendment TWO)	-	Withdrawn
Schedule ONE	-	Withdrawn
Schedule TWO	-	Withdrawn

Page 1 of 2 (Amendment TWO)	-	Valid
Page 2 of 2 (Amendment THREE)	-	Valid
Schedule THREE	-	Valid

Signed for and on behalf of INSPEC.....
K J Warren, Manager Certification Services



Page 1 of 1

KONFORMITÄTSERKLÄRUNG

Herstellername, Adresse, Telefonnr./Faxnr.

Peltor AB

Box 2341

33102 Värnamo, Schweden

Tel. +46 (0)370-694200, Fax +46 (0)370-15130

erklärt, dass die im Folgenden beschriebene persönliche Schutzausrüstung

Augenschützer, Peltor V40F STIHL 0000 884 0508

den Vorgaben der Ratsrichtlinie 89/686/EEC und, falls relevant, den nationalen Bestimmungen zum harmonisierten Standard EN166 entspricht.

identisch mit der persönlichen Schutzausrüstung im EU-Konformitätszertifikat Nr. 363 ist, das von INSPEC Certification Ltd, The Buckland Wharf, Buckland Wharf, Aylesbury, Bucks, HP22 5LQ, England, ausgefertigt wurde.

Datum und Ort der Ausfertigung

Värnamo, den 10.01.1996

Name und Unterschrift der berechtigten Person


Sigvard Nilsson

Position

Development Manager

DÉCLARATION DE CONFORMITÉ

Nom, adresse, n° téléphone/télécopie du fabricant

Peltor AB

Box 2341

SE-331 02 Värnamo, Suède

Tél. +46 (0)370 69 42 00, Fax +46 (0)370 151 30

déclare que le nouveau PPE décrit ci-après

Protection oculaire, Peltor V40F STIHL 0000 884 0508

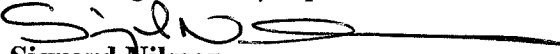
est conforme aux dispositions de la directive européenne 89/686/CEE, et lorsque c'est le cas à la norme nationale transposant la norme harmonisée n° EN166

est identique à la PPE qui est l'objet du certificat UE de conformité n° 363 délivré par INSPEC Certification Ltd, The Buckland Wharf, Buckland Wharf, Aylesbury, Bucks, HP22 5LQ, Angleterre.

Date et lieu de délivrance

Värnamo, le 10 janvier 1996

Nom et signature de la personne autorisée


Sigvard Nilsson

Titre

Directeur Développement

DECLARATION OF CONFORMITY

Manufacturer's name, address, telephone/fax no

Peltor AB

Box 2341

331 02 Värnamo, Sweden

Tel +46 (0)370-694200, Fax +46 (0)370-15130

declares that the new PPE described hereafter

Eye protector, Peltor V40F STIHL 0000 884 0508

is in conformity with the provisions of Council Directive 89/686/EEC and, where such is the case, with the national standard transposing harmonised standard No. EN166

is identical to the PPE which is the subject of EC certificate of conformity No. 363 issued by INSPEC Certification Ltd, The Buckland Wharf, Buckland Wharf, Aylesbury, Bucks, HP22 5LQ, England.

*Date and place of issue
person*

Värnamo 1996-01-10

Name and signature of authorized


Sigvard Nilsson

Position

Development Manager

EN 352-1 : 1993

Safety requirements and testing

Part 1 : Ear-muffs

TEST REPORT NO: 01.12.30

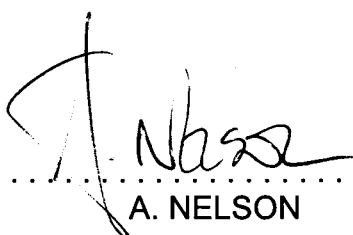

CLIENT: PELTOR AB
Box 2341
S-331 02 Varnamo
Sweden

MODEL: H510A ear-muff

DATE SAMPLES RECEIVED: 22 November 2001

DATE ORDER RECEIVED: 19 November 2001

DATES OF TESTS: 26 November to 19 December 2001

Checked:  Approved: 

A. NELSON A. DIAMOND

Issued: 19 December 2001

Page 1 of 6

This report shall not be reproduced except in full, without the written approval of INSPEC International Limited.

The samples tested and the digital photograph file will be destroyed four weeks from the date of this report unless otherwise instructed.

INTRODUCTION

PELTOR AB commissioned assessment of their model H510A ear-muff, in the over-the-head mode, to the mandatory (less Information and Marking) requirements of EN 352-1 : 1993 (BS EN 352-1 : 1993).

It will be helpful to refer to the Standard whilst reading this report.

For Conclusions see page 5.

Photographs of the product tested are contained in the Annex to this report.

Notes Opinions, comments and interpretations expressed herein are outside the scope of UKAS accreditation and any clauses or sub-clauses where this applies are shown in italics in this report.

Tests marked "Not UKAS accredited" in this report are not included in the UKAS Accreditation Schedule for our laboratory.

SAMPLE DETAILS

The client submitted ten samples. These were allocated INSPEC Testing Services' sample identifications L65901 to L65910.

The samples are referred to by only the last two digits of these identifications throughout the remainder of this report and the left and right cups are additionally referenced using L and R.

PROCEDURES

The tests were performed as specified in the relevant clauses of EN 352-1 : 1993 (BS EN 352-1 : 1993).

Notes

1. No size range was specified by the client. Assessment to the requirements for adjustability proved compliance with the combination of test dimensions specified for a small, normal and large size range device. Consequently, when required, the succeeding testing was performed at a test height of 130 mm and a test width of 145 mm, as specified for a normal size range device.
2. For individual samples, the tests to establish 'Headband force' (Clause 6.4) and 'Cushion pressure' (Clause 6.5) were performed simultaneously.
3. Water immersion was performed in accordance with Clause 7.9. The cups were removed during conditioning. Replacement cushions were provided.
4. The acoustic test fixture and test site used for the measurement of insertion loss were as described in ISO/TR 4869-3. A plane progressive wave was used.
5. Sound attenuation testing was performed at the University of Salford's School of Acoustics and Electronic Engineering and was conducted by INSPEC Testing Services' personnel.

It should be noted that certain ambiguities are present in the Standard. For testing purposes, it has been necessary for INSPEC Testing Services to make interpretations relating to these ambiguities. Where relevant, the reference for the appropriate interpretation is included in the Results section of this report. Copies are available on request.

RESULTS**4 Sizing**

Refer to Clause 6.2 below.

5 Materials and construction

Samples 05 and 06 were tested.

5.1 Materials

5.1.1 The parts of the ear-muff which are likely to come into contact with the skin when worn were found, during the laboratory tests, to be non-staining, soft and pliable.

Manufacturer to certify regarding likelihood of skin irritation, allergic reaction or any other adverse effect on health.

5.1.2 *The materials were visibly unimpaired after being cleaned in accordance with the manufacturer's instructions.*

5.2 Construction

5.2.1 *All parts of the ear-muffs were found to be radiused, finished smooth and free from sharp edges.*

5.2.2 Cushions and damping pads were replaceable without the use of tools.

5.2.3 Not applicable.

6 Performance**6.1 General**

The results from assessments made, in accordance with the requirements specified in Clauses 6.2 - 6.12, are detailed below.

6.2 Adjustability

Samples 01 to 06 were tested in the over-the-head mode.

The samples satisfied the combination of test dimensions specified for a small, normal and large size range device.

6.3 Cup rotation

Samples 01 to 06 were tested.

The contact between the cushions of the samples and the plates of the fixture was continuous throughout the range of angular adjustment.

6.4 Headband force

Table 1 : Headband force

Sample	01	02	03	04	05	06	Mean
Force (N)	12.0	12.0	12.0	12.0	12.1	11.9	12.0

6.5 Cushion pressure**Table 2 : Cushion pressure**

Sample	01	02	03	04	05	06
Pressure (Pa)	3561	3620	3468	3545	3399	3400

6.6 Resistance to damage when dropped

Samples 01 to 06 were tested.

No sample cracked, nor did any part of the ear-muff become detached such that correct re-assembly required the use of either a tool or a replacement part.

6.8 Change in headband force**Table 3 : Headband force (following conditioning) and Change in headband force**

Sample	01	02	03	04	05	06	Mean
Force (N)	11.4	11.4	11.4	11.9	11.7	11.5	11.6
Change (%)	-5.0	-5.0	-5.0	-0.8	-3.3	-3.4	-

6.9 Insertion loss

Samples 01 to 10 were tested.

Standard deviations, calculated from the mean results for all cups at each frequency, were not greater than 4.0 dB for four or more adjacent 1/3 octave bands, and were not greater than 7.0 dB in any individual 1/3 octave band.

A summary of the insertion loss data for the individual samples, and the mean insertion loss with standard deviations at each frequency, are given in the Annex to this report.

6.10 Resistance to leakage

The cushions were of an unsealed foam construction. Not applicable.

6.11 Ignitability

INSPEC interpretation ISR10 applies.

Samples 05 and 06 were tested.

No component ignited whilst in contact with the rod, or continued to glow following its removal.

6.12 Minimum attenuation

Not UKAS accredited for this Laboratory.

Refer to the results included in the Annex to this report for the accreditation status of the testing performed.

Samples 01 to 04 were tested, using the method specified in BS EN 24869-1 : 1993 (ISO 4869-1 : 1990). Details of the tests are given in the University of Salford's Test Report, No: HP/01/45, which is contained in the Annex to this INSPEC report.

The differences between the mean attenuation (M_f) and the standard deviation (s_f) at each frequency, taken from that report, are given below.

Table 4 : Attenuation

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Measured attenuation ($M_f - s_f$) (dB)	7.3	15.1	25.0	30.1	30.2	33.9	32.2

7.1.3.3 Mass

The mean mass of the ten samples was 181 grams.

CONCLUSIONS

PELTOR AB commissioned assessment of their model H510A ear-muff, in the over-the-head mode, to the mandatory (less Information and Marking) requirements of EN 352-1 : 1993 (BS EN 352-1 : 1993).

When tested as detailed in this report, the samples satisfied, as a small/normal/large size range model, those requirements which were assessed.

The following requested requirement was not assessed.

5.1.1 Materials not known to cause skin irritation, allergic reaction or any other adverse effect on health.

ANNEX

This Annex comprises four sections:-

1. University of Salford, School of Acoustics and Electronic Engineering
Report No: HP/01/45 - 4 pages.
2. H-M-L and SNR values calculated from the results detailed
in the University's Report - 1 page.
3. Insertion loss results summary - 1 page.
4. Product photographs - 1 page.



Report No: HP/01/45
Date: 19 December 2001
Page 1 of 4

TEST REPORT
SOUND ATTENUATION
OF HEARING PROTECTORS

BS EN 24869-1 : 1993

ISO 4869-1 : 1990

CLIENT: INSPEC International Limited
56 Leslie Hough Way
Salford
Greater Manchester
M6 6AJ

YOUR ORDER NO: 2/1203-1

TYPE OF HEARING PROTECTOR: Ear-muff

MODEL: H510A

MANUFACTURER: PELTOR AB

DATE RECEIVED: 7 December 2001

DATE(s) OF TESTS: 7 & 11 December 2001

Signed:

A. Diamond
Test Engineer

Approved

D.J. M'Cauley
Laboratory Manager



THE QUEEN'S
ANNIVERSARY PRIZES
FOR HIGHER AND FURTHER EDUCATION

INTRODUCTION:

BS EN 24869-1 : ISO 4869-1 specifies a subjective method for measuring the attenuation of hearing protectors at the threshold of hearing. This method, including details of the test signals, site, equipment, subjects and procedure, was applied to the samples tested and the results are presented, as required by the Standard, on the following pages of this Report.

For complete details of the method, please refer to BS EN 24869-1 : ISO 4869-1.

TEST SIGNALS, SITE AND EQUIPMENT:

The facilities used for this test are located within the School of Acoustics and Electronic Engineering at the University of Salford.

TEST SUBJECTS:

The 16 test subjects comprised both males and females and covered a wide age range. All subjects were audiometrically screened in accordance with Clause 4.4.1 of BS EN 24869-1 prior to the test. They also satisfied the requirements of Clauses 4.4.2 and 4.4.3.

FITTING:

Manufacturer's instructions were provided and were followed during the fitting of the hearing protectors. Guidance was also available from the test operator.

TEST PROCEDURE:

Each of the four sample hearing protectors supplied by the client was tested on four test subjects. Each test subject's protected threshold was assessed once.

The procedures specified in Clause 4.5 were followed.

RESULTS:

See the attached sheet for the attenuation data for each individual subject.

Model H510A
 Mode tested Over the head
 Attenuation results (values in dB) See below
 Test Reference No. HP/01/11/03

		Frequency (Hz)							
Subject	Sample	63	125	250	500	1K	2K	4K	8K
A.N	01	13	8	17	26	32	32	39	28
F.W	01	13	8	16	29	32	38	36	40
C.M	01	12	16	22	25	32	28	38	34
J.B	01	23	16	26	30	30	34	41	33
J.S	02	10	15	17	30	32	34	40	36
J.O	02	8	4	12	27	28	29	35	35
R.H	02	10	8	16	24	32	37	38	31
P.H	02	16	14	22	30	36	40	34	42
C.N	03	18	13	16	26	30	37	40	38
R.C	03	16	15	17	30	38	30	34	36
P.H	03	14	8	20	30	32	34	35	34
J.U	03	20	14	20	28	36	30	38	37
C.L	04	14	10	18	28	32	33	32	38
D.M	04	17	18	24	26	36	32	34	42
L.C	04	10	8	16	22	36	34	34	36
E.S	04	12	8	20	30	32	36	38	34
Mean Attenuation		14.1	11.4	18.7	27.6	32.9	33.6	36.6	35.9
Standard Deviation		4.0	4.1	3.6	2.5	2.7	3.4	2.7	3.7
Assumed Protection (SSV1)		10.1	7.3	15.1	25.0	30.1	30.2	33.9	32.2

HEADBAND FORCE:

The headband force of each sample ear muff was measured as specified in Clause 4.6, at 145mm head width and 129mm head height. The measurements were recorded after a period of 2 minutes. The results are presented below:

Sample	Force (N)
01	10.8
02	11.2
03	10.8
04	11.5

REPLACEABLE PARTS:

1. Cushions

ATTENUATION VALUES CALCULATED FROM
UNIVERSITY OF SALFORD,
SCHOOL OF ACOUSTICS AND ELECTRONIC ENGINEERING
REPORT NO: HP/01/45

H	=	32
M	=	25
L	=	15
SNR	=	27

Sample numbers: L65901 TO 10

Mode tested: Over-head

Insertion loss (IL)

Summary of results (dB)

FREQ (Hz)	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000
1 CUP R	15.55	22.87	29.17	35.15	41.80	40.80	34.72	38.83	44.72	46.60	50.65	35.03	35.65	37.73	33.87	37.35
1 CUP L	15.78	23.17	28.63	34.88	43.20	46.00	35.72	38.03	42.68	46.13	42.25	36.93	37.25	39.87	35.87	41.52
2 CUP R	15.12	19.67	29.42	35.35	41.62	40.50	34.68	38.55	42.87	43.53	44.42	30.32	32.22	37.10	34.70	35.95
2 CUP L	16.12	22.53	29.12	35.85	44.05	40.57	35.52	40.75	45.03	43.90	42.45	32.68	33.52	39.30	36.40	40.08
3 CUP R	15.52	23.52	28.82	35.45	43.77	42.23	35.48	41.10	43.98	47.25	50.18	35.87	36.80	43.03	38.62	38.07
3 CUP L	15.98	23.28	29.95	36.95	45.43	39.83	33.28	38.87	44.25	48.48	48.95	38.37	41.63	37.47	40.32	36.47
4 CUP R	15.47	23.25	29.43	36.45	44.95	40.08	33.63	38.47	42.43	44.23	47.75	42.00	39.00	35.75	36.50	37.57
4 CUP L	14.97	23.18	30.10	36.82	45.58	36.52	33.80	39.33	43.33	43.47	43.62	35.20	37.53	39.05	37.70	35.67
5 CUP R	12.38	23.28	28.62	34.72	41.23	41.18	34.50	40.28	43.18	44.93	49.20	38.13	40.65	38.10	36.20	39.10
5 CUP L	15.72	22.35	29.15	36.55	44.00	38.32	35.10	40.88	43.45	44.73	43.40	37.23	38.05	37.20	37.87	39.83
6 CUP R	16.23	22.82	29.12	35.38	43.35	39.88	35.55	40.10	45.38	45.02	42.68	36.10	35.47	37.08	37.90	38.55
6 CUP L	15.20	22.48	28.48	35.82	43.42	38.65	35.38	38.67	44.88	48.08	45.32	36.63	36.33	36.05	40.93	37.72
7 CUP R	15.02	23.10	28.70	34.78	41.97	44.53	36.78	39.25	43.98	44.40	46.63	38.92	39.25	37.45	34.50	36.43
7 CUP L	15.25	22.83	28.87	35.12	43.30	41.83	35.15	40.95	44.22	47.10	49.07	38.22	37.98	36.52	39.63	39.27
8 CUP R	14.72	22.48	28.40	34.80	43.53	40.13	35.33	41.08	45.47	47.27	48.38	35.90	36.28	35.42	37.90	35.60
8 CUP L	15.45	22.55	27.83	34.97	43.53	42.20	36.40	40.38	42.43	45.27	47.05	34.60	33.52	35.72	38.37	41.80
9 CUP R	15.02	22.60	28.60	34.83	42.02	40.97	37.30	40.78	43.67	45.30	47.33	36.68	37.40	38.98	36.13	33.33
9 CUP L	15.08	22.37	28.20	34.47	41.98	41.63	37.33	42.35	45.43	46.33	46.57	36.98	32.57	38.95	36.20	40.60
10 CUP R	16.22	22.73	29.38	35.12	43.27	39.42	35.97	40.97	45.22	48.48	48.63	38.32	41.73	36.23	35.67	35.62
10 CUP L	15.42	23.07	27.98	35.38	44.23	40.82	35.23	39.73	42.05	44.35	47.00	38.85	35.80	38.50	37.57	36.32
MEAN	15.31	22.71	28.90	35.44	43.31	40.81	35.34	39.97	43.93	45.74	46.58	36.65	36.93	37.78	37.14	37.84
STD DEV	.82	.80	.60	.73	1.24	2.06	1.10	1.16	1.11	1.63	2.66	2.47	2.74	1.80	1.89	2.24

The values are means of 3 measurements. The 2nd decimal place is reported only to obviate unnecessary rounding errors.

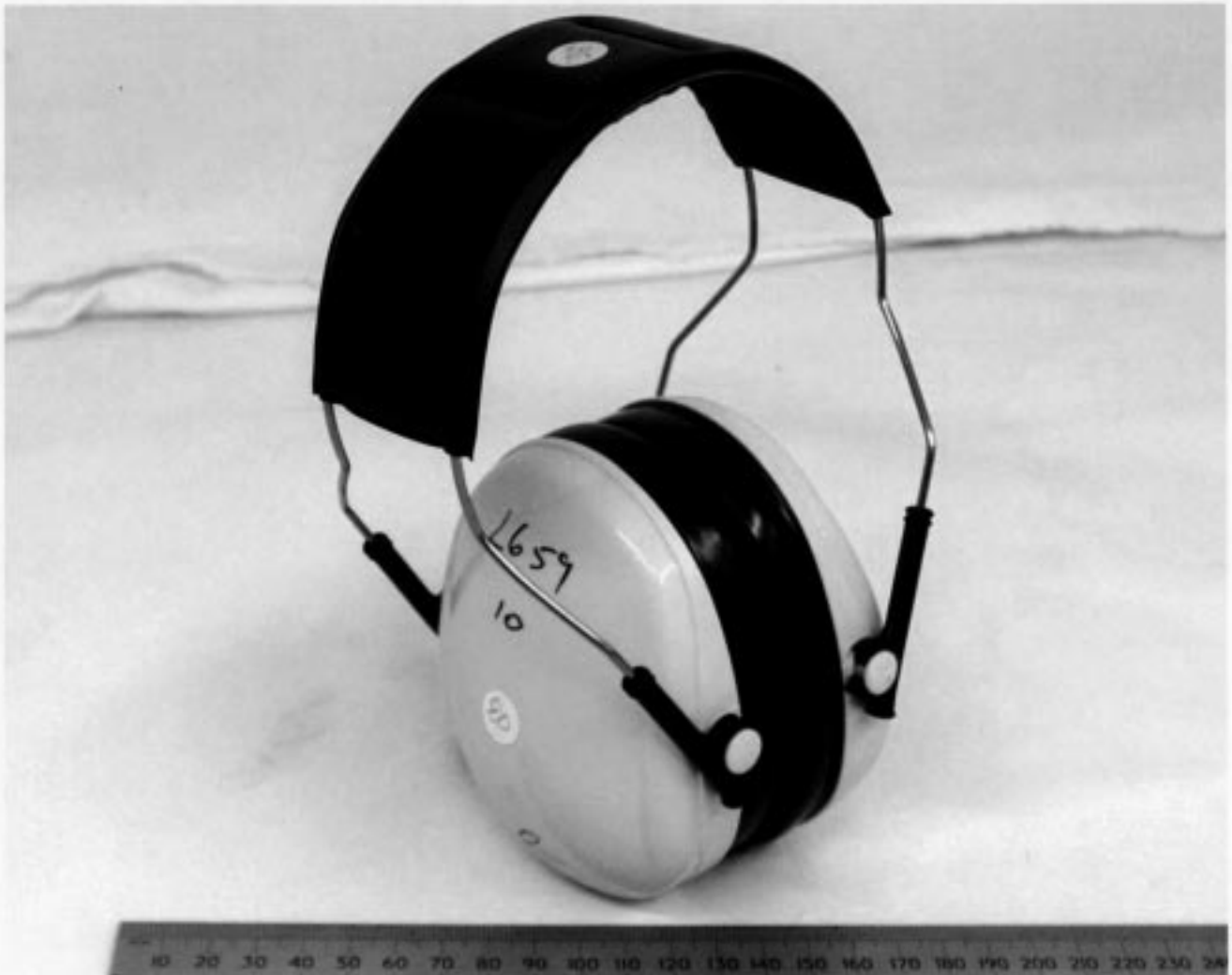
Full details of these results are given in the appended pages and the key to the test coding is as follows:-

1st/2nd digits: UB = Unoccluded, Before occluded tests, UA = Unoccluded, After occluded tests,

OA = Occluded cup A, OB = Occluded cup B

3rd digit: Number of test

Peltor AB's model H510A ear-muff



INSPEC Testing Services sample number L65910

17 December 2001

INSPEC

EC TYPE-EXAMINATION CERTIFICATE NO: 995

Product Description:- Ear-Muffs


Product Designation:- H510 Series H510A
H510B
H510F

Manufactured by:- Peltor AB
Box 2341
Malmstengatan 19
S-331 02 Varnamo
Sweden

When assessed and examined against harmonised standard EN352-1:1993 are found to be in conformity with Council Directive 89/686/EEC relating to personal protective equipment

Authorised Representative: Peltor Ltd
Unit G, Ash Grove Industrial Park
Bognor Regis
West Sussex
PO22 9SL

Signed for and on behalf of INSPEC. (Notified Body No: 0194)

.......... **Date:** 5th March 2002

K J Warren,
Manager, Certification Services.

Terms and Conditions associated with INSPEC's
EC Type-Examination Certificate No: 995

Reference Documents:-

- | | | | |
|------|--------------------------|---|--|
| i) | Test Report | - | INSPEC 01.12.30, 01.12.31A, 01.12.32 |
| ii) | Technical File | - | Ref: TF/995 |
| iii) | Test and Inspection Plan | - | H510A (Enclosure 7a)
H510B (Enclosure 11a)
H510F (Enclosure 14a) |

Conditions attached to the issue of this certificate:

- i) Marking and instructions have been assessed in the English language only. It is the Manufacturers/Authorised Representatives responsibility to obtain and supply language versions acceptable to the country where the product is to be sold.
- ii) Any changes to the product, technical file or quality manual/quality plan shall be immediately notified to INSPEC.
- iii) The Manufacturer/Authorised Representative shall comply at all times with INSPEC's Regulations governing CE Product Certification.
- iv) This Certificate remains the property of INSPEC and may be withdrawn if any of the conditions attached to its issue are not complied with.

KONFORMITÄTSERKLÄRUNG

Herstellername, Adresse, Telefonnr./Faxnr.

Peltor AB

Box 2341

33102 Värnamo, Schweden

Tel. +46 (0)370-694200, Fax +46 (0)370-15130

erklärt, dass die im Folgenden beschriebene persönliche Schutzausrüstung

Kapselgehörschutz H510A, H510B, H510F STIHL 0000 884 0508

den Vorgaben der Ratsrichtlinie 89/686/EEC und, falls relevant, den nationalen Bestimmungen zum harmonisierten Standard Nr. prEN352-1 entspricht.

identisch mit der persönlichen Schutzausrüstung im EU-Konformitätszertifikat Nr. 995 ist, das vom INSPEC, Upper Wingbury Courtyrad, Wingrave, Aylesbury, Bucks, HP22 4LW, England, ausgefertigt wurde.

Datum und Ort der Ausfertigung

Värnamo, den 14.03.2002

Name und Unterschrift der berechtigten Person



Sigvard Nilsson

Position

Development Manager

DECLARATION OF CONFORMITY

Manufacturer's name, address, telephone/fax no

Peltor AB

Box 2341

331 02 Värnamo, Sweden

Tel +46 (0)370-694200, Fax +46 (0)370-15130

declares that the new PPE described hereafter

Hearing protector, Peltor H510A, H510AK, H510B, H510F STIHL 0000 884 0508

is in conformity with the provisions of Council Directive 89/686/EEC and, where such is the case, with the national standard transposing harmonised standard No. EN352-1

is identical to the PPE which is the subject of EC certificate of conformity No. 995 issued by INSPEC, Upper Wingbury Courtyard, Wingrave, Aylesbury, Bucks, HP22 4LW, England.

Date and place of issue

Värnamo 2003-10-22

Name and signature of authorized person


Sigvard Nilsson

Position

Development Manager

DÉCLARATION DE CONFORMITÉ

Nom, adresse, n° téléphone/télécopie du fabricant

Peltor AB

Box 2341

SE-331 02 Värnamo, Suède

Tél. +46 (0)370 69 42 00, Fax +46 (0)370 151 30

déclare que le nouveau PPE décrit ci-après

Protection H510A, H510B, H510F STIHL 0000 884 0508

est conforme aux dispositions de la directive européenne 89/686/CEE, et lorsque c'est le cas à la norme nationale transposant la norme harmonisée n° prEN352-1

est identique à la PPE qui est l'objet du certificat UE de conformité n° 995 délivré par INSPEC, Upper Wingbury Courtyrad, Wingrave, Aylesbury, Bucks, HP22 4LW, England.

Date et lieu de délivrance

Värnamo, le 14.03.2002

Nom et signature de la personne autorisée


Sigvard Nilsson

Titre

Directeur Développement