

EC TYPE-EXAMINATION CERTIFICATE: 2399

Product description: - Hearing Protection – Ear Plugs

Product identification: - See schedule

Manufacturer: - 3M United Kingdom PLC
3M Centre
Bracknell
Berkshire
RG12 8HT
United Kingdom

When assessed and examined against harmonised standard EN352-2:2002 are found to be in conformity with Council Directive 89/686/EEC and associated amendments, relating to personal protective equipment.

Signed 

Date: 16th August 2012

K J Warren, Manager, Certification Services

For and on behalf of INSPEC International Ltd.
56 Leslie Hough Way, Salford, Gt Manchester M6 6AJ
England (Notified Body No: 0194)

Certification remains valid until 16th August 2017, providing compliance with INSPEC's terms and conditions is maintained.

Original date of issue: 16th August 2012

certificate invalid
if not embossed

For terms and conditions of issue, see page 2

Terms and Conditions

Reference Documents: -

- | | | | |
|------|--------------------------|---|--|
| i) | Test Reports | - | INSPEC 05.03.73 |
| ii) | Technical File | - | TF2399 and TF1357 |
| iii) | Test and Inspection Plan | - | Ref 3M Tech File TF0062,
Release Product Standard |

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- iv) This Certificate remains the property of INSPEC and may be withdrawn if any of the conditions attached to its issue are not complied with.
- v) This certificate may be copied or reproduced by the certificate holder, complete and without omissions or additions, and in accordance with INSPEC's terms of business.
- vi) This certificate has been provided in accordance with our standard Terms of Business, which can be viewed at, and printed from:

<http://inspec-international.com/ToB.pdf>

If you have difficulty accessing the Terms of Business, you may contact us for a copy.

CERTIFICATION INDEX

Item	Status	Issued	Amendment
Pages 1 – 4	Valid	120816	Initial issue

CERTIFICATION SCHEDULE

Product reference	Product description
3M 1100	Orange coloured Disposable Ear Plugs (Uncorded)
3M 1110	Orange coloured Disposable Ear Plugs (Corded)
3M 1100R	Orange coloured Disposable Ear Plugs (Uncorded, refill for 1100DP dispenser)
3M 1150	Peach coloured variant of 3M 1100

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	30.0	33.1	36.3	38.4	38.7	39.7	48.3	44.4
Standard Deviation (dB)	3.9	5.0	7.4	6.2	5.6	4.3	4.5	4.4
Assumed Protection (dB)	26.1	28.1	28.9	32.2	33.1	35.4	43.8	40.0

$$H = 37; \quad M = 34; \quad L = 31$$

$$SNR = 37$$

In addition to the products referenced on this certificate, the standard industrial product may also be sold as market specific packaged variants. Such variants will be differentiated and the Technical File will be updated with the appropriate information.