

ISO 4869-1:2018 (E)

Acoustics — Hearing protectors — Part 1: Subjective method for the measurement of sound attenuation

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Measurement of the sound attenuation of hearing protectors
4.1	Test signals
4.2	Test site
4.2.1	General
4.2.2	Sound pressure level and sound pressure level variation
4.2.3	Reverberation time
4.2.4	Ambient noise level
4.3	Test equipment
4.4	Test subjects
4.5	General test procedure and instruction of the test subject
4.6	Determination of hearing protector attenuation
5	Application force
5.1	Earmuffs
5.2	Semi-aural earplugs
6	Test report
Annex A	(normative) Uncertainty of hearing protector attenuation measurements
A.1	General
A.2	Uncertainty within a laboratory
Annex B	(informative) Evaluation of two hearing protector attenuation measurements
B.1	Application of the expanded measurement uncertainty within a laboratory
B.1.1	Using typical uncertainty estimates
B.1.2	Using uncertainty values derived from test data in a specific laboratory
B.2	Application of expanded measurement uncertainty between laboratories
Annex C	(informative) Minimum and maximum sound pressure levels for test signals

Page count: 18