DIN EN 13819-1:2021-03 (E)

Hearing protectors - Testing - Part 1: Physical test methods

Contents

Page

European foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Earmuffs 6
4.1 Specimens, conditioning and scheme of testing 6
4.2 Adjustability 13
4.3 Cup rotation 23
4.4 Headband force 27
4.5 Cushion pressure 31
4.6 Resistance to damage when dropped 34
4.7 Resistance to damage when dropped at low temperature (optional) 36
4.8 Headband flexing 38
4.9 Stand-by mechanism durability test (mounted earmuffs only) 40
4.10 Water immersion 40
4.11 Water immersion - headband under stress (optional) 41
4.12 Resistance to leakage (fluid filled cushions only) 41
4.13 Ignitability 42

5 Earplugs 43
5.1 Specimens, conditioning and scheme of testing 43
5.2 Assessment of nominal diameter designation 45
5.3 Range of fitting of headband earplugs 45
5.4 Resistance to damage when dropped 48
5.5 Resistance to damage when dropped at low temperature (optional) 48
5.6 Ignitability 49

Annex A(informative) Uncertainty of measurement and interpretation of test results 50

Bibliography 52