

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