

DIN EN 16232:2023-12 (E)

Child use and care articles - Infant swings (includes Amendment :2023)

Contents	Page
European foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Test equipment	6
4.1 Articulated test mass	6
4.2 Test mass A	7
4.3 Test mass B	8
4.4 Small parts cylinder	8
4.5 Feeler gauge	8
4.6 !Test probes for finger entrapment	9
4.7 Test surface for static slippage	11
4.8 Test surface for stability	11
4.9 Test equipment for sound level measurement	11
5 General requirements and test conditions	11
5.1 Product conditioning	11
5.2 Test conditions	11
5.3 Application of forces	12
5.4 Tolerances	12
5.5 Order of tests	12
6 !Chemical hazards	12
7 !Thermal hazards (see A.3)	14
8 Mechanical hazards	15
8.1 General	15
8.1.1 Determination of the junction line	15
8.1.2 Determination of protected volume	15
8.2 Hazards due to sound level	17
8.2.1 Requirement	17
8.2.2 Test method	17
8.3 !Entrapment hazards	18
8.3.1 Requirement	18
8.4 Hazards due to falling of the child	18
8.4.1 Angles	18
8.4.2 Restraint system	24
8.5 Hazards due to moving parts	25
8.5.1 Requirements for compression points	25
8.5.2 Requirements for shear points	25
8.6 Hazards due to folding of the product	25
8.6.1 Requirements	25
8.6.2 Test methods	26
8.7 ! Entanglement hazards (see A.4.3)	26
8.7.1 Requirements	26
8.7.2 Test method	27
8.8 Choking and ingestion hazard	27

8.8.1	Requirements	27
8.8.2	Test methods	27
8.9	Suffocation hazards from packaging materials	28
8.10	Hazards from edges, corners and protruding parts	29
8.11	Hazards from inadequate structural integrity	29
8.11.1	Static strength	29
8.11.2	Durability of powered swinging mechanisms	29
8.11.3	Reclining system	29
8.12	Hazards from inadequate stability	30
8.12.1	Requirements	30
8.12.2	Test method for static stability	30
8.12.3	Test method for dynamic stability	30
8.13	Hazards from possible movement of the infant swing on the floor	31
8.13.1	Requirement	31
8.13.2	Test method	31
8.14	Electrical hazards	31
8.14.1	General	31
8.14.2	Leakage prevention	31
8.14.3	Test methods	31
9	Product information	32
9.1	General	32
9.2	Marking of the product	32
9.2.1	General requirements	32
9.2.2	Requirements for infant swings with electrical components	33
9.2.3	Durability of marking	34
9.2.4	Test method for durability of marking	34
9.3	Purchase information	34
9.4	Instructions for use	35
9.4.1	General	35
9.4.2	Warnings	35
9.4.3	Additional information	35
9.4.4	Requirements for infant swings with electrical components	36
Annex A (informative) Rationales	37	
A.1	General (see Clause 1)	37
A.2	!Chemical hazards (see Clause 6)	37
A.3	Protective volume and protective barriers (see 8.1.2 and 8.1.2.2)	37
A.4	Hazards due to sound level (see 8.2)	37
A.5	Hazards due to detachment of toy bars	38
A.6	Hazards from possible movement of the infant swing on the floor (see 8.13)	38
A.7	!Hazards due to falling of the child (see 8.4)	38
Annex B (informative) A-deviation	39	
Annex C (normative) Warnings	40	
Bibliography	66	