

DIN EN 16232:2018-10 (E)

Child use and care articles - Infant swings (includes Amendment :2018)

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 [A1] 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 [A1] Chemical hazards	12
7 [A1] 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 [A1] 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 [A1] 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	[A1] 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	[A1] Hazards due to falling of the child (see 8.4).....	38
Annex B	(informative) A-deviation.....	39
Annex C	(normative) Warnings.....	40
Bibliography	66