

Connectivity & Products

Sleep Products




Juvenile Products Safety Forum | Valérie Cimetière and Catherine Follin-Arbelet | October 11, 2021



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Presenters




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Valérie Cimetière

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Catherine, who has years of experience in juvenile products, joined SGS in 2010.

Today, Catherine participates in CEN standardization works through European working groups and is convenor of the working group on the safety of furniture for children (cots, chairs and tables for children, mattresses, etc.).


She has been recently appointed as Chairman of the CEN TC252 in charge of developing standards for the safety of childcare articles, and co-chairman of the ISO TC310.

With a background in textile engineering, Valerie worked for 15 years in textile retail companies before joining SGS in 2011. She is a member of CEN TC 248 and participates in the creation and review of these standards within the French standardization committee.




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SGS at a Glance




N°1

World leader




93 000

Employees




2 600

Offices and laboratories




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Global industries



Global Service

Local Expertise



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Connectivity & Products

- For the Consumer Goods & Retail industry, we offer turnkey and tailored solutions to help brands and retailers improve the safety, efficacy and quality of products throughout the entire product life cycle
- We offer regulatory and performance testing for all consumer products, from your morning coffee cup to the bed you sleep on at night

In the end, it's only trusted because it's tested.

Stronger. *Tested.*

Box. *Tested.*

Drill. *Tested.*

Lipstick. *Tested.*

Toy Robot. *Tested.*

Mattress. *Tested.*

Helmet. *Tested.*


Pen. *Tested.*

Paint. *Tested.*


Chair. *Tested.*

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Connectivity & Products – the SGS Testing Lab Network



About 125 laboratories and 16,380 employees




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Summary

- Standards and products
- Standards, requirements
- Products without standards:
 - Risk assessments



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Scope and standards



EN 16779-1

Textile childcare articles – Safety requirements and test methods for children's cot duvets



EN 16780

Textile childcare articles – Safety requirements and test methods for children's cot bumpers



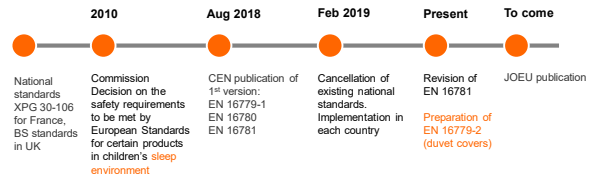
EN 16781

Textile childcare articles – Safety requirements and test methods for children's sleep bags for use in a cot

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Timeline



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Safety requirements



Chemical hazards

- European regulations on chemical substances
- Specific mention for flame retardants



Thermal properties and fire behaviour

- Exposure to a flame or a spark
- Flame propagation speed
- Thermal resistance



Entrapment hazards/strangulation hazards

- Loops, cords and loose stitching can cause strangulation or hazards of ischemia

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Safety requirements



External suffocation hazards

- Plastic transfers, print
- Packaging
- Soft materials covering child's face



Hazardous edges

- Presence of rigid components



Microbiological hazards

- Hygiene
- Materials of animal origin
- Recycled fibers



Ingestion and suffocation hazards

- From small parts

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Height of children's cot bumpers

- No requirement/mention of cot bumper height
- Cots covered by EN716:
 - Minimum height above the mattress in the **lowest position of the base** = 500mm
 - Minimum height above the mattress in the **highest position of the base** = 200 mm
- If height of the cot bumper is < 500 mm, instructions for use shall state it can only be used when the base is adjusted in height (and give the suitable dimension)

"No parts can be used as footholds enabling children to climb on the product and out of the cot"



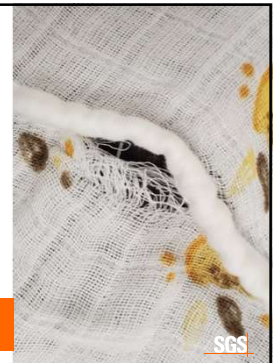
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Filling access risk

- Minimum of 10 stitches per 3 cm, if not
- Test seam resistance as described in the standard
- Caution:
 - Fabrics made with a low yarn count or slippery fabric can comply with the first condition but seam slippage will allow children to reach filling

"Seams shall be sewn so as to meet one of the following conditions...."



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Holes



"No openings in any textile materials including loop, mesh, knitted fabric and lace (> 7mm probe)"

- No maximum dimension
- No holes in the articles: bows, "hidden holes" (zip end)
- Baby sleep bags: loop label only in the back **accepted** w/o maximum size (recommended 150 mm circumference)



"No completely bounded openings in rigid materials (between 5-12 mm)"

Includes zipper slider for example

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Small parts

- 2018 Version: removal force procedure for grippable components, washing procedure for others
- Version of three standards under revision: new standards related to "Security of attachment":
 - CEN/TS 17394-1: Components attached to infants' clothing – specification
 - EN 17394-2: Buttons – test method
 - CEN/TS 17394-3: Mechanically applied metal press fasteners – test method
 - CEN/TS 17394-4: Other than buttons and mechanically applied metal press fasteners – test method (specific washing machine, such as Durawash)

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Children's sleep bags – neck opening

- Purpose: avoid the neck opening being too wide (suffocation hazard from submarining)
- Requirement only for neck openings (not armholes)
- Tests carried out show many products on the market do not meet the requirements
- Requirements are under discussion at EU level, but no real change expected
- Evolutive products (covering different size ranges) – limitation of the opening range



Child height (cm)	Neck opening circumference minimum-maximum (cm)	Information given for convenience: approximate age based on child height (months)
50 to 65	28 to 32	0 to 6
65 to 80	30 to 38	3 to 20
80 to 95	31 to 41	12 to 24

"Neck opening, in relation to the child height, shall comply with the requirements according to Table 1"

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Slide fasteners on children's sleep bags

- Purpose: avoid the opening becoming too wide (suffocation risk)
- No definition of "away": can be 1 cm from the opening, or the other way round
- If the other way round:
 - It can be left open leaving legs and feet outside
 - Only separable slide fasteners may be used
 - There may be difficulty closing the slide fastener at the neck
- If positioned 1 cm from the opening:
 - Can be left open if the neck hole is too tight



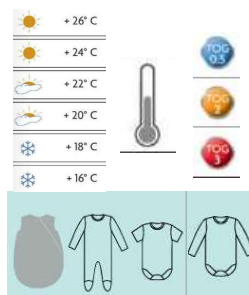
"When slide fasteners are placed at the neck opening or at the arm opening, the top stop shall be placed away from the neck opening or the arm opening"

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Thermal resistance

- Thermal resistance to be indicated on product labels (cot duvets and baby sleep bags)
 - Temperature range
 - Recommended thermal resistance value (or TOG index for simplified information)
 - The way the baby should be dressed



"The thermal resistance of the sleep bag shall have a maximum of 0.40 m² K/W for the sleep bag designed for use in a room temperature from 16°C to 25°C"

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Mattresses for cribs and cots

- EN 16890 published 2018
 - Published to the OJEU
- Amendment A1 published June 2021
 - Publication to the OJEU expected



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Mattresses for cribs and cots – essential requirements



Dimensions

Prevent hazards from gaps between the sides of a crib or a cot and mattress

Requirement on the accuracy of the nominal dimensions

Length and width – 0/+ 20 mm

Thickness: shall not be thicker than the nominal dimension



Access to filling material

Prevent choking hazards

Requirement on strength of seams, zip fasteners, assemblies

Removable cover: no access to filling material



Mattress firmness

Prevent suffocation hazards

Foam firmness

Durability

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Products not covered by standards



Baby sleeping bags

Without arm holes, a sort of cover to keep babies warm



Baby positioners, ergonomic mattresses

Used to keep babies in a position deemed safe for sleeping



Baby Nests

Bed reducers. Used in cots and cribs to limit a baby's sleep environment

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Risk assessment, safety concerns



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Thank you for listening

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