

1 en71 part1 mechanical and physical properties

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EN 71: Safety Standards for Toys**

What is the EN 71 Standard?

The European Standard EN 71 is a comprehensive framework of safety requirements for toys sold within the European Economic Area (EEA). It encompasses multiple parts that address various aspects of toy safety.

EN 71-1: Mechanical and Physical Properties

EN 71-1 specifies mechanical and physical requirements to ensure toys are safe for children's play. It includes tests for:

- Sharp points or edges
- Choking hazards
- Entanglement in cords or strings
- Stability and rigidity

EN 71-3: Method for Migration of Certain Elements

EN 71-3 establishes limits for the migration of certain hazardous elements from toys to children's saliva or mouth. It tests for:

- Heavy metals (e.g., lead, cadmium)
- Phthalates (plasticizers)
- Nitrosamines and nitrosable substances

EN 71 Certification

EN 71 certification confirms that a toy meets the safety specifications outlined in the standard. Manufacturers must undergo rigorous testing and assessment by accredited third-party laboratories to obtain this certification.

bs EN 71-1 2014 a1 2018

This is a specific British Standard that adopts the EN 71-1 standard for mechanical and physical properties of toys. It includes additional requirements related to the use of magnets in toys.

Is EN71 the Same as CE?

No. EN 71 is a safety standard, while CE marking indicates that a product meets the essential health and safety requirements of the European Union. EN 71 certification is a prerequisite for obtaining CE marking for toys.

How to Get EN71 Certification

To obtain EN 71 certification, manufacturers must submit their toys for testing by an accredited laboratory. The laboratory will conduct the specified tests and issue a test report confirming compliance. Manufacturers can then apply for a certificate of conformity based on the test report.

Cost of EN71 Certification

The cost of EN 71 certification varies depending on the size and complexity of the toy and the laboratory chosen. It typically ranges from a few hundred to several thousand euros.

Additional Relevant Standards

- **BS EN 747-1 2012 A1 2015:** Safety of toys - Flammability
- **ASTM F963-17:** Standard Consumer Safety Specification for Toy Safety
- **BS EN 1991-1: Eurocode 1:** Actions on structures - General actions - Densities, self-weight, imposed loads for buildings

- **EN 13727:** Textiles - Methods for determining the resistance to saliva and sweat

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1 EN71 PART1 MECHANICAL AND PHYSICAL PROPERTIES

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