

ISO 8124-1 Small Parts Cylinder

Clause 6.7.1.2 Test Gauge for Toy Small Parts



Standards: ISO 8124-1 Clause 6.7.1.2 (EN 71-1, ASTM F963, GB 6675 compatible)

Manufacturer: KingPo Technology Development Limited www.dgkingpo.com Tel: +86-769-81627526

1. Product Overview

The KingPo ISO 8124-1 Small Parts Cylinder is a precision stainless steel test gauge used in toy safety testing to determine whether detachable or liberated components of toys intended for children under 36 months pose a choking hazard. It simulates the throat dimensions of a young child as specified in ISO 8124-1 Clause 6.7.1.2.

This gauge is an essential tool for toy manufacturers, testing laboratories, and quality assurance teams to perform reliable, repeatable small parts testing in accordance with international toy safety standards.

2. Applicable Standards

- **ISO 8124-1 Clause 6.7.1.2** — Safety of toys — Part 1: Safety aspects related to mechanical and physical properties (Small parts cylinder test)
- **EN 71-1** — European standard for toy safety (mechanical and physical properties)
- **ASTM F963** — Standard Consumer Safety Specification for Toy Safety (USA)
- **GB 6675** — Chinese national standard for toy safety

3. Test Purpose

The purpose of this test is to determine whether a toy component or detachable part can fit entirely inside the small parts cylinder. If the component fits completely into the cylinder in any orientation (without being compressed or forced), it is classified as a "small part" and is considered a potential choking hazard for children under 36 months of age.

This test must be performed on both new samples and on parts that may be liberated during reasonably foreseeable abuse testing (e.g., drop tests, tension tests, torque tests).

4. Key Features

- **Precision Stainless Steel Construction** — High-quality stainless steel with smooth internal surface and accurate dimensions for reliable, repeatable testing.
- **Standard Compliance** — Manufactured exactly to ISO 8124-1 Clause 6.7.1.2 dimensions (inner diameter 31.7 mm).
- **Durable & Dimensionally Stable** — Resistant to wear and corrosion, maintaining accuracy over long-term use in laboratory and production environments.
- **Easy to Use & Maintain** — Simple cylindrical design; easy to clean and inspect for damage or contamination.
- **Versatile Application** — Suitable for toy manufacturers, third-party labs, quality control, and certification bodies.

5. Technical Specifications

Parameter	Specification	Notes
Product Name	ISO 8124-1 Small Parts Cylinder	Clause 6.7.1.2 Test Gauge
Inner Diameter	31.7 mm	Standard dimension per ISO 8124-1
Material	Stainless steel	High durability and dimensional stability
Test Objects	Detachable components & parts liberated during abuse testing	For toys intended for children under 36 months
Test Method	Component must fit entirely inside cylinder in any orientation (no compression)	If it fits → classified as small part (choking hazard)
Related Standards	EN 71-1, ASTM F963, GB 6675	Widely recognized international toy safety standards
Customization	Available upon request	Standard or custom configurations supported

6. Testing Principle & Typical Procedure

Principle: If a toy component can pass completely through the cylinder in any orientation without being compressed or forced, it is considered a small part that may pose a choking hazard to young children.

Typical Procedure:

1. Ensure the cylinder is clean and free from any obstructions, burrs, or residue.
2. Take the toy component (new or liberated during abuse testing).
3. Attempt to insert the component into the cylinder in any orientation.
4. Do not compress, squeeze, or force the component into the cylinder.
5. If the component fits entirely inside the cylinder, it is classified as a small part.
6. Document the result clearly (photo documentation recommended for traceability).

7. Applications

- Toy Manufacturers — Small parts compliance testing for toys intended for children under 36 months
- Testing Laboratories — ISO 8124-1, EN 71-1, and ASTM F963 small parts testing services
- Quality Assurance Departments — Incoming inspection and final product verification
- Certification Bodies — Mechanical safety evaluation and compliance testing
- Research Institutions — Toy safety and child product hazard studies

8. Standard Configuration

The standard configuration includes:

- ISO 8124-1 Small Parts Cylinder (Stainless Steel, 31.7 mm inner diameter)
- Basic care and usage instructions

Note: Third-party dimensional verification / calibration certificate can be arranged upon request. Specific configurations may vary — please confirm requirements when ordering.

9. Ordering Information

To ensure correct configuration, please provide the following information when requesting a quotation:

- Quantity required
- Whether third-party dimensional verification or calibration certificate is needed
- Any specific customization requirements
- Preferred delivery timeline

KingPo Technology Development Limited

Factory Address: No.9 University Road, Songshan Lake,

Dongguan City, Guangdong Province 523770, China

Tel: +86-769-81627526 | Email: sales@kingpo.hk | Website: www.dgkingpo.com

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