

ISO 8124-5 Has Been Updated for Measuring Certain Elements in Toys

The International Organization for Standardization (ISO) has published "ISO 8124-5:2026 Safety of toys – **Part 5: Determination of total concentration of certain elements in toys**", to replace the previous version: ISO 8124-5:2015.

This new edition of the standard — prepared by Technical Committee ISO/TC 181 (Safety of toys) — specifies methods of sampling and analysing the total concentration of the elements: **antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium** from toy materials and from parts of toys.

Substantial Changes

This 2nd edition cancels and replaces the 1st edition (ISO 8124-5:2015), which has been technically revised and withdrawn.

The main changes are as follows:

- The choice of digestion mixtures has been changed from being based on the final quantification instruments (ICP-MS or ICP-OES) to being based on the type of the test part or sample material. A new digestion mixture (1:9 mixture of hydrochloric acid and nitric acid) has been introduced to replace the reverse aqua regia mixture.
- An energy dispersive X-ray fluorescence (EDXRF) method for screening the contents of eight elements in plastic materials in toys has been included as an informative annex.
- Certain elements of additional information contained in Annex A have been integrated into the main body of the text (e.g., Scope, 7.4).

Reference

<https://www.iso.org/standard/86040.html>



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