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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 44702-2024

**Specification for the limitation of harmful substances found in
watch casings contacting directly with skin**

直接接触人体皮肤的手表外观件中有害物质限量的规定

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1 Scope

GB 44702-2024 is the Chinese national standard on specification for the limitation of harmful substances found in watch casings contacting directly with skin, in the field of precision mechanics and jewellery. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 29 September 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 October 2025. Classification: ICS 39.040.10, CCS Y11. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document defines the terms and definitions for the limitation of harmful substances found in watch casings contacting directly with skin (hereinafter referred to as "watch casings"), specifies the requirements, inspection rules and marking, and describes the corresponding test methods. This document applies to watch casings made of metal, cermet, leather, plastic, rubber, synthetic sapphire, inorganic glass, and fiber composite materials that come into direct contact with human skin.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the version corresponding to that date is applicable to this document; for undated references, the latest version (including all amendments) is applicable to this document.

GB 6675.4, Safety of toys - Part

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 children's watches Watches designed for children aged 3 and above and 14 and below.
[Source: GB/T 41411-2022, 3.1]

4.1 General requirements

4.1.1 Release of nickel The limitation of release of nickel from metals and cermet (including coatings) shall be less than $0.5 \mu\text{g}/\text{cm}^2/\text{week}$.

4.1.2 Limitation of other harmful substances Leather watch casings shall comply with the requirements of GB 20400, and the limitation of harmful substances in watch casings made of other materials shall comply with the provisions of Table 1. Table 1 - Requirements for the limitation of harmful substances Restricted substances Limitation Heavy metal element a Cadmium (Cd) $\leq 100 \text{ mg/kg}$ Lead (Pb) $\leq 1\,000 \text{ mg/kg}$ Mercury (Hg) $\leq 1\,000 \text{ mg/kg}$ a If the sample has a coating, it shall be tested together with the substrate.

4.2 Requirements for casings of children's watches

4.2.1 Basic requirements In addition to meeting the requirements of 4.1, the casings of children's watches shall also meet the requirements of

4.2.2 and 4.2.3.

4.2.2 Migratable elements The content of migratable elements in casings of children's watches shall not exceed the limitation specified in Table 2. Table 2 - Requirements for the limitation of migratable elements in casings of children's watches

4.2.3 Restricted plasticizers The content of restricted plasticizers in casings of children's watches shall not exceed the limitation specified in Table 3. Table 3 - Requirements for the category and limitation of restricted plasticizers

5 Test methods

5.1 Determination of release of nickel Samples with a coating shall be tested according to the method of EN 12472; other samples shall be tested according to the method of EN 1811.

5.2 Determination of heavy metal elements The contents of cadmium, lead, and mercury shall be tested according to the methods in GB/T 39560.301, GB/T 39560.4, and GB/T 39560.5.

5.3 Determination of harmful substances in leather The test shall be conducted according

to the method in GB 20400.

5.4 Determination of migratable elements The test shall be conducted according to the method in GB 6675.4.

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