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

GB/T 42951-2023

**Timekeeping instruments - Watch external parts made of hard
material - General requirements and test methods**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document is equivalent to ISO 18684.2020 "General requirements and test methods for appearance parts of watches made of hard materials for timekeeping instruments".

Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the performance of parts, components, and components in terms of resistance to mechanical impact, thermal shock, corrosion, scratches, light, and wear.

This document applies to parts made of bulk materials with a Vickers hardness value of not less than 1200.

This document covers watches in which all or part of the exterior parts, except for the watch glass, are made of hard materials.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations

For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to

this document.

GB/T 38020.2-2019 Gold alloy covering of watch cases and accessories Part 2.Purity,

thickness, corrosion resistance and accessories

Focused testing (ISO 3160-2.2015, MOD)

Note. There is no technical difference between the quoted content of GB/T 38020.2-2019 and the quoted content of ISO 3160-2.2015.

GB/T 38022-2019 Shock-proof watches (ISO 1413.2016, IDT)

ISO 105-A02 Textiles Color Fastness Test Part A02.Gray Sample Card for Assessing Discoloration (Textiles-Testsfor

Note. GB/T 250-2008 Gray sample card for evaluating discoloration in textile color fastness testing (ISO 105-A02.1993, IDT)

ISO 4892-1 Plastics Laboratory Light Source Exposure Test Methods Part 1.General (Plastic-Methods of exposure to

Note. GB/T 16422.1-2019 Plastic laboratory light source exposure test methods Part 1.General principles (ISO 4892-1.2016, IDT)

spraytests)

Note 1.GB/T 10125-2021 Artificial atmosphere corrosion test salt spray test (ISO 9227.2017, MOD)

Note 2.There is no technical difference between the quoted content of ISO 9227.2022 and the quoted content of ISO 9227.2017.

ISO /CIE11664-4 Colorimetry Part 4.CIE1976L*a*b* color space (Colorimetry-Part 4.CIE1976

L*a*b*colourspace)

Note. GB/T 33725-2017 Wear, scratch and impact resistance test of watch cases and accessories (ISO 23160.2011, MOD)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Appearance partsexternalpart

< Watch Category> Watch parts, components, and components that are attached to the movement and play a role in the shape, protection, fixation, and control of the movement.