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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 32484-2022

Replacing GB/T 32484-2016

Watch-cases and accessories - Vapour phase deposited coatings

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foreword

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

drafting.

This document replaces GB/T 32484-2016 "Vapor Deposition Coatings for Watch Cases and Their Accessories". Compared with GB/T 32484-2016,

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

a) The requirements and test methods of "nickel release" have been changed (see 4.1.7, 4.1.7 of the.2016 edition);

b) The test method "thickness measurement" has been changed (see 5.3, 5.3 of the.2016 edition);

c) Changed the "adhesion test" (see 5.4, 5.4 of the.2016 edition);

d) Changed the "corrosion resistance test" (see 5.5, 5.5 of the.2016 edition);

e) Changed the "simulated wear and corrosion test" (see 5.7.2, 5.7.2 of the.2016 edition);

f) The "color measurement" test method has been changed (see 5.8, 5.8 of the.2016 edition).

This document is equivalent to ISO 16253.2017 "Vapor Deposition Coatings for Watch Cases and Their Accessories".

The following minimal editorial changes have been made to this document.

--- Added "note" about "effective surface" in 4.1.1.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the general requirements and test methods for hard coatings obtained by vapor deposition processes, which are mainly used to improve the appearance

Appearance, wear and corrosion resistance and/or provide protection against contact allergies.

This document applies to watch cases and their accessories.

2 Normative references

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

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

ISO 2819 Review of test methods for adhesion strength of electrodeposited and chemically deposited layers of metallic coatings on metal substrates (Metalic

Note. GB/T 5270-2005 Comments on test methods for adhesion strength of electrodeposited and chemically deposited layers of metal coatings on metal substrates (ISO 2819.

1980, IDT)

ISO 3160-1 Gold alloy coatings for watch cases and accessories - Part 1.General requirements (Watch-casesand

accessories-Goldaloy coverings-Part 1.General requirements)

Note. GB/T 38020.1-2019 Gold alloy coatings for watch cases and accessories - Part 1.General requirements (ISO 3160-1.1998, MOD)

ISO 3160-2 Gold alloy coatings for watch cases and accessories - Part 2.Determination of purity, thickness, corrosion resistance and adhesion

Note. GB/T 38020.2-2019 Gold alloy coatings for watch cases and accessories - Part 2.Tests for purity, thickness, corrosion resistance and adhesion

(ISO 3160-2.2015, MOD)

ISO 8654 Color definition, color range and designation of gold alloys for jewelry (Jewelery-Coloursofgoldaloys-Defi-

tests)

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

MOD)

Note. GB/T 33725-2017 Watch case and its accessories wear, scratch and impact test (ISO 23160.2011, MOD)

ISO 27874 Specifications and test methods for gold and gold alloy electroplating coatings for electrical, electronic and engineering purposes on metals and other inorganic coatings

Note. GB/T 34625-2017 Technical specifications and test methods for gold and gold alloy electroplating coatings for electrical, electronic and engineering purposes on metals and other inorganic coatings

(ISO 27874.2008, MOD)

EN1811 Reference test method for nickel release from articles in direct contact with the skin for a long time and all components inserted into the puncture site of the human body