

ICS 39.040.10

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

GB/T 38020.2-2019

**Watchcases and accessories -- Gold alloy coverings -- Part 2:
Determination of fineness, thickness, corrosion resistance and
adhesion**

Issued on: August 30, 2019

Implemented on: March 1, 2020

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Foreword

1 Scope

2 Normative references

Foreword

GB/T 38020 "Table shell and its accessories gold alloy cover" is divided into two parts.

--- Part 1. General requirements;

--- Part 2. Testing for purity, thickness, corrosion resistance and adhesion.

This part is the second part of GB/T 38020.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the redrafting method to modify the use of ISO 3160-2:2015 "Table shell and its accessories gold alloy cover part 2.

Test of purity, thickness, corrosion resistance and adhesion.

The technical differences between this part and ISO 3160-2:2015 and their reasons are as follows.

---About the normative reference documents, this standard has made technical adjustments to adapt to China's technical conditions, adjustments

The situation is reflected in Chapter 2, "Regulatory Citations", and the specific adjustments are as follows.

- * Replace ISO 2177 with GB/T 4955 equivalent to the international standard;
- * Replace ISO 1463 with GB/T 6462 equivalent to the international standard;
- * Replace ISO 11426 with GB/T 9288 equivalent to the international standard;
- * Replace ISO 9227 with GB/T 10125 equivalent to the international standard;
- * Replace ISO 349 with GB/T 16921 equivalent to the international standard;
- * Added reference to GB/T 18043;
- * Replace ISO 12687 with GB/T 18179 equivalent to the international standard;
- * Replace ISO 14647 with GB/T 19351 equivalent to the international standard;

- * Replace ISO 3543 with GB/T 20018 equivalent to the international standard;
- * Replace ISO 9220 with GB/T 31563 equivalent to the international standard;
- * Replace ISO 3160-1 with GB/T 38020.1 modified to international standards.

This section has made the following editorial changes.

--- Increased the "Note" in the artificial sweat test (see 7.4.5).

This part was proposed by the China Light Industry Federation.

This part is under the jurisdiction of the National Clock Standardization Technical Committee (SAC/TC160).

This section drafted by. Shenzhen Feiya Technology Development Co., Ltd., Xi'an Light Industry Watch Research Institute Co., Ltd., Zhuhai Rossini

Watch Industry Co., Ltd., Yibo Boutique (Shenzhen) Co., Ltd., Shishi Xinjia Electronics Co., Ltd., Shenzhen Titan Clock Technology Co., Ltd.

Tianwang Electronics (Shenzhen) Co., Ltd.

1 Scope

This part of GB/T 38020 specifies that the watch case and its accessories include a gold alloy cover layer that is not removable from the case.

Test methods for degrees, thickness, corrosion resistance and adhesion.

This part of the test is only applicable to effective surfaces.

This section applies to all gold alloy coatings specified in GB/T 38020.1.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 4955 metal coating overlay thickness measurement anode dissolution coulometric method (GB/T 4955-2005, ISO 2177.

2003, IDT)

GB/T 6462 metal and oxide coating thickness measurement microscopy (GB/T 6462-2005, ISO 1463.2003,

IDT)

GB/T 9288 Gold alloy jewellery - Determination of gold content - ash blasting method (fire test method) (GB/T 9288-2006, ISO 11426.

1997, MOD)

GB/T 10125 artificial atmosphere corrosion test salt spray test (GB/T 10125-2012, ISO 9227.2006, IDT)

GB/T 16921 metal coating overlay thickness measurement X-ray spectroscopy method (GB/T 16921-2005, ISO 3497.

2000, IDT)

GB/T 18043 Determination of precious metal content of jewellery by X-ray fluorescence spectrometry

GB/T 18179 metal coating porosity test wet sulfur (sulphur) test (GB/T 18179-2000, idt ISO 12687.1996)

GB/T 19351 Metallic coatings on metallic substrates - Determination of porosity of gold coatings

(GB/T 19351-2003, ISO 14647.2000, IDT)

GB/T 20018 Metallic and non-metallic covering layer thickness measurement beta-ray backscattering method (GB/T 20018-2005,

ISO 3543.2000, IDT)

GB/T 31563 metal coating thickness measurement scanning electron microscopy (GB/T 31563-2015, ISO 9220.1988, MOD)

GB/T 38020.1 and its accessories - Gold alloy coatings - Part 1. General requirements (GB/T 38020.1-2019,

ISO 3160-1.1998, MOD)

ISO 3868 Measurement of the thickness of coatings for metallic and other inorganic coverings - Fize multibeam interferometry (Metalicand

Other non-organic coatings-Measurement of coating thicknesses-Fizeau multiple-beam Interferometrymethod)

ISO 4538 metal coating thioacetamide corrosion test (TAA test)

[Metalliccoatings-Thioacetamide

Corrosiontest(TAAtest)]