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

GB/T 39141.4-2024

**Mineral and sapphire watch-glasses - Part 4: Anti-reflective
treatment**

无机和蓝宝石手表玻璃 第4部分：减反射处理

(English Translation)

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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 is required.

This document is Part 4 of GB/T 39141 "Inorganic and sapphire watch glasses". GB/T 39141 has been published for the following part.

- Part 1: Dimensions and tolerances;
- Part 2: Fitting to the case by gluing or sealing;
- Part 3: Qualitative criteria and test methods;
- Part 4: Anti-reflection treatment.

This document is equivalent to ISO 14368-4:2020 "Inorganic and sapphire watch glasses Part 4: Anti-reflection treatments".

Introduction

GB/T 39141 aims to provide a basis for design, production and acceptance for manufacturers and users of inorganic and sapphire watch glasses.

GB/T 39141 is proposed to consist of 4 parts.

- Part 1: Dimensions and tolerances. The purpose is to enhance the interchangeability of round flat inorganic and sapphire watch glasses.
- Part 2: Fittings to the watch case by gluing or sealing rings. The purpose is to standardize the fittings to the watch case by gluing or sealing rings.

Dimensional requirements for circular inorganic and sapphire watch glass contact surfaces.

- Part 3: Qualitative standards and test methods. Aims to enhance the performance quality of inorganic and sapphire watch glasses.

-- Part 4: Anti-reflection treatment. The purpose is to ensure the performance of anti-reflection films on inorganic and sapphire watch glasses.

Inorganic and sapphire watch glass Part 4: Anti-reflection treatment

1 Scope

This document defines the terms and definitions for anti-reflective treated watch glasses and describes the test methods and the interpretation of the results.

This document is applicable to sapphire watch glass that has been treated with anti-reflection treatment. Inorganic watch glass that has been treated with anti-reflection treatment can also refer to this document.

use.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB/T 33725-2017 Wear, scratch and impact tests for watch cases and their accessories (ISO 23160:2011, MOD) Note. There is no technical difference between the referenced content of GB/T 33725-2017 and the referenced content of ISO 23160:2011.

GB/T 38020.2-2019 Gold alloy coatings for watch cases and their accessories Part 2: Purity, thickness, corrosion resistance and Adhesion test (ISO 3160-2:2015, MOD) Note. There is no technical difference between the content cited in GB/T 38020.2-2019 and the content cited in ISO 3160-2:2015.

GB/T 39141.3-2022 Inorganic and sapphire watch glasses Part 3: Qualitative standards and test methods (ISO 14368-3.

2003, IDT)

ISO 4892-1 Plastics-Methods of exposure to laboratory light sources Part 1: General to laboratory light sources-Part 1: General guidance) Note. GB/T 16422.1-2019 Plastics laboratory light source exposure test method Part 1: General (ISO 4892-1.:2016, IDT) ISO 4892-2 Plastics-Methods of exposure test methods to laboratory light sources Part 2: Xenon arc lamps to laboratory light sources-Part 2: Xenon-arc lamps) Note. GB/T 16422.2-2022 Plastics laboratory light source exposure test method Part 2: Xenon arc lamp (ISO 4892-2.:2013, IDT) ISO 9227 Corrosion tests in artificial-Salt spray tests Note. GB/T 10125-2021 Artificial atmosphere corrosion test Salt spray test (ISO 9227:2017, MOD)

ISO/CIE 11664 - 1..2019 Colorimetry-Part 1: CIE Standard Colorimeter Observer standard colorimetric observers) ISO/CIE 11664-2 Colorimetry-Part 2: CIE standard illuminants nants CIE 15.2018 Colorimetry CIE 85.1989 Solar Spectral Irradiance

3 Terms and definitions

The following terms and definitions apply to this document.

The URLs for terminology databases used for standardization maintained by ISO and IEC are as follows.