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

GB/T 39141.3-2022

**Mineral and sapphire watch-glasses - Part 3: Qualitative criteria
and test methods**

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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 of Standardization Documents" drafted.

This document is part 3 of GB/T 39141 "Inorganic and Sapphire Watch Glass". GB/T 39141 has released the following parts.

--- Part 1. Dimensions and tolerances;

--- Part 2. Fittings mounted on the case with an adhesive or sealing ring;

--- Part 3. Qualitative standards and test methods.

This document is equivalent to ISO 14368-3:2003 "Inorganic and Sapphire Watch Glass Part 3. Qualitative Standards and Test Methods".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

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

GB/T 39141 is intended to be composed of 4 parts.

--- Part 1. Dimensions and tolerances. The purpose is to enhance the interchangeability of circular flat inorganic and sapphire watch glass.

--- Part 2. Fitting to the case with an adhesive or seal. The purpose is to standardize the assembly to the case with glue or seals

Dimensional requirements for the contact surface of the round inorganic and sapphire watch glass.

--- Part 3. Qualitative standards and test methods. The aim is to enhance the performance quality of inorganic and sapphire watch glass.

--- Part 4. Anti-reflection processing. The purpose is to ensure the performance of inorganic and sapphire watch glass anti-reflection coatings.

Inorganic and Sapphire Watch Glass

Part 3. Qualitative criteria and test methods

1 Scope

This document specifies the defect term and test methods for round inorganic and sapphire watch glass with basic physical and aesthetic requirements.

2 Normative references

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

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

GB/T 39141.1-2020 Inorganic and sapphire watch glass Part 1. Dimensions and tolerances (ISO 14368-1:2000, IDT)

ISO 286-1 Geometric Specifications for Products (GPS) Linear Dimensional Tolerances ISO Code System Part 1. Tolerances, Deviations and Fittings

Part 1. Basis of tolerances, deviations and fits]

Note. GB/T 1800.1-2020 Product Geometry and Technical Drawing Specification (GPS) Linear Dimension Tolerance ISO Code System Part 1. Tolerances, Deviations and Matches

The basis of integration (ISO 286-1:2010, MOD)

ISO 286-2 Product Geometric Specifications (GPS) Linear Dimensional Tolerances ISO Code System Part 2. Standard Tolerance Zone Codes

Note. GB/T 1800.2-2020 Product Geometric Specifications (GPS) Linear Dimension Tolerance ISO Code System Part 2. Standard Tolerance Zone Code and

Limit deviation table for holes and shafts (ISO 286-2:2010, MOD)

3 Terms and Definitions

Terms and definitions defined in ISO 286-1, ISO 286-2 and GB/T 39141.1-2020 and the

following terms and definitions apply to this document.

3.1

defect

Defects arising from the production, processing and handling of inorganic and sapphire watch glass materials.

Note. See Appendix A for the inspection method of appearance defects.

3.2

chip

damage at the edges.

3.3

scratch scratch

Continuous or discontinuous grooves with blunt or broken edges, which may be irregular in width and depth.

3.4

ripple waveeffect

Water streak defects in glass.