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

GB/T 44276.2-2024

**Microscopes - Cover glasses - Part 2: Quality of materials,
standards of finish and mode of packaging**

显微镜 盖玻片 第2部分：材料质量、成品标准和包装方式

(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 2 of GB/T 44276 "Microscope cover slips". GB/T 44276 has published the following parts.

Part 1: Dimensional deviations, thickness and optical properties; -Part 2: Material quality, finished product standards and packaging methods. -this document is equivalent to ISO 8255-2:2013 "Microscope cover slips Part 2: Material quality, finished product standards and packaging" Way".

Introduction

With the rapid development of various scientific and technological fields at home and abroad, cover glass is widely used in scientific research, teaching, medical care and biotechnology.

Before using optical microscopy to study thin slices of biological specimens cut from organisms, in order to prevent the biological specimens from being to prevent the specimen from dehydrating and deteriorating in the air, it is necessary to bury the specimen with a cover glass, and then place the cover glass in the optical path of the microscope imaging beam.

When designing the aberration correction of the microscope objective, the relevant parameters of the cover glass must be considered so that the optical microscope can play its normal role in various applications.

It can ensure the design, quality and application of optical microscope products, promote coordination among enterprises and improve production efficiency.

In view of the above reasons, the main indicators of cover glass are standardized and normalized according to the parameters and usage functions of the cover glass.

It is very necessary.

GB/T 44276 "Microscope Cover Slips" contains the terms, requirements, signs and logos of cover slips, and Therefore, GB/T 44276 "Microscope Cover Slips" is divided into two parts.

Part 1: Dimensional deviation, thickness and optical properties. The purpose is to specify

the dimensional deviation, thickness and optical properties of cover glasses.

Require.

Part 2: Material quality, finished product standards and packaging methods. The purpose is to specify the material quality, finished product standards and packaging methods of cover glasses.

Installation requirements and test methods.

Microscope Cover Slips Part 2.

Material quality, finished product standards and packaging methods

1 Scope

This document specifies requirements and test methods for material quality, finished product standards and packaging methods for microscope cover glasses.

This document applies to the design, manufacture and application of microscope cover slips for use in the visible spectral range (400 nm to 760 nm).

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.

in this document.

ISO 2859-1 Sampling procedures for inspection by attributes Part 1: Sampling plans for lot-by-lot inspection indexed by acceptance quality limit (AQL) [Sampling procedures for inspection by attributes-Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection] Note. GB/T 2828.1-2012 Sampling procedures for inspection by attributes Part 1: Sampling plans for batch inspection based on acceptance quality limit (AQL) (ISO 2859-1:1999, IDT) ISO 8255-1:2017 Microscopes-Cover Slips Part 1: Dimensional Deviations, Thickness and Optical Properties glasses-Part 1: Dimensional tolerances, thickness and optical properties)

Note 1: There is no technical difference between the referenced content of ISO 8255-1:2017 and the referenced content of ISO 8255-1:2011.

Note 2: GB/T 44276.1-2024 Microscope cover slips Part 1: Dimensional deviation, thickness and optical properties (ISO 8255-1:2017,IDT).

ISO 11455 Raw optical glass - Determination of birefringence

3 Terms and definitions

The following terms and definitions apply to this document.

Granular seeds

Tiny or extended bubbles in glass.

Striped cord

Inhomogeneities in the glass composition of a glass (also called lines, streaks, or glass knots).

Line

Thin parallel lines on the surface of glass in the direction of stretching.

Nick

Glass edge Defects on the edge of the cover glass caused by the shedding of tiny pieces of glass.