

# INTERNATIONAL STANDARD

**ISO**  
**8255-2**

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## **Optics and optical instruments — Microscopes — Cover glasses —**

### **Part 2:**

Quality of materials, standards of finish and  
mode of packaging

*Optique et instruments d'optique — Microscopes — Lamelles couvre-  
objet —*

*Partie 2: Qualité des matériaux, normes de finition et mode d'emballage*



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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

ISO 8255 consists of the following parts under the general title *Optics and optical instruments — Microscopes — Cover glasses*:

- Part 1: *Dimensional tolerances, thickness and optical properties*
- Part 2: *Quality of material, standards of finish and mode of packaging*

Annex A forms an integral part of this part of ISO 8255.

## Introduction

The data given in this part of ISO 8255 are intended to provide for adequate performance of the product for the end user. They are applicable to most products in use and have been adapted to take into account the relevant national standards in force. Dimensions and optical qualities of microscope cover glasses are described in ISO 8255-1.

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## 1 Scope

This part of ISO 8255 specifies requirements and methods of test for the quality of material, standards of finish and mode of packaging for microscope cover glasses.

This part of ISO 8255 is applicable to microscope cover glasses for use in transmitted-light microscopy (400 nm to 760 nm).

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8255. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8255 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2859-1:1989, *Sampling procedures for inspection by attributes — Part 1: Sampling plans indexed by acceptable quality level (AQL) for lot-by-lot inspection*.

ISO 8255-1:1986, *Optics and optical instruments — Microscopes — Cover glasses — Part 1: Dimensional tolerances, thickness and optical properties*.

ISO 11455: 1995, *Raw optical glass — Determination of birefringence*.

## 3 Definitions

For the purposes of this part of ISO 8255, the following definitions apply.

### 3.1 seed

Small bubble in glass, sometimes elongated.

### 3.2 cord

Vitreous compositional inhomogeneities in glass (also known as striae, ream or glassy knots).

### 3.3 line

Fine parallel line on glass surface in direction of draw.

### 3.4 nick

Place where minute piece(s) of glass has been removed from the edge of the glass, giving rise to poor edge finish.

### 3.5 cleanliness

Freedom from visible contamination such as fingerprints, particulate matter or residue left from cleaning process.