
Microscopes — Cover glasses —

Part 1:

**Dimensional tolerances, thickness and
optical properties**

Microscopes — Lamelles couvre-objet —

Partie 1: Tolérances dimensionnelles, épaisseur et propriétés optiques

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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Requirements	1
4.1 General.....	1
4.2 Dimensional tolerances for thickness.....	1
4.3 Dimensional tolerances for length, width and diameter	2
4.4 Optical properties.....	2
5 Marking and labelling	3
Annex A (informative) Guidelines for selection of cover glass type	4
Annex B (informative) Typical dimensions for rectangular and round cover glasses	5
Bibliography	6

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 172, *Optics and photonics*, Subcommittee SC 5, *Microscopes and endoscopes*.

This third edition cancels and replaces the second edition (ISO 8255-1:2011), of which it constitutes a minor revision to correct the designation of cover glass.

A list of all parts in the ISO 8255 series can be found on the ISO website.

Introduction

This document defines dimensions and specifies optical quality requirements in order to guarantee the quality of observation.

The data given in this document are applicable to most products in use and have been adapted to take into account the relevant national standards in vigour.

This document contains requirements for dimensional tolerances, thickness and optical properties, whereas quality requirements and test methods related to the material are dealt with in ISO 8255-2.

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