

Consumable accessories for light microscopes —

Part 2: Slides —

Section 2.2 Specification for materials and quality of finish

ICS 37.020

National foreword

This British Standard reproduces verbatim ISO 8037-2:1997, including Technical Corrigendum November 2002, and implements it as the UK national standard. It supersedes BS 7011-2.2:1990 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee LBI/33, Microscopes, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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This British Standard, having been prepared under the direction of the Sector Board for Materials and Chemicals, was published under the authority of the Standards Board and comes into effect on 15 February 1998

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Optics and optical instruments — Microscopes — Slides —

Part 2:

Quality of material, standards of finish and
mode of packaging

*Optique et instruments d'optique — Microscopes — Lames porte-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.

International Standard ISO 8037-2 was prepared by Technical Committee ISO/TC 172, *Optics and optical instruments*, Subcommittee SC 5, *Microscopes and endoscopes*.

ISO 8037 consists of the following parts under the general title *Optics and optical instruments — Microscopes — Slides —*

Part 1: Dimensions, optical properties and marking

Part 2: Quality of material, standards of finish and mode of packaging

Annex A forms an integral part of this part of ISO 8037. Annexes B to D are for information only.

Introduction

The data given in this part of ISO 8037 on optical microscope slides are intended to provide for safety of the end user as well as for adequate performance of the product. (Dimensions and optical properties are described in ISO 8037-1.)

Requirements for smoothness of edges and perhaps rounding of corners, reducing the risk to technicians of finger cuts or abrasions, have become increasingly urgent. This is especially important because of the possibility of infection during research or diagnostic work involving blood or other bodily fluids, since these might be contaminated with HIV virus related to AIDS. Cut-edge slides should not be used because of these hazards.

The data given in this part of ISO 8037 are applicable to most products in use and have been adapted to take into account relevant national standards in force.

Optics and optical instruments — Microscopes — Slides —

Part 2:

Quality of material, standards of finish and mode of packaging

1 Scope

This part of ISO 8037 specifies requirements and test methods for the quality of material, standards of finish and mode of packaging of silicate microscope slides for use in transmitted light microscopy in the visible spectrum range (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 8037. 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 8037 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 4287-1:1984, *Surface roughness — Terminology — Part 1: Surface and its parameters*

ISO 8037-1:1986, *Optics and optical instruments — Microscopes — Slides — Part 1: Dimensions, optical properties and marking*

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

3 Definitions

For the purposes of this part of ISO 8037, the following definitions apply.

3.1 seed

Small bubble in glass, sometimes elongated.

3.2 stone

Containment or solid inclusion in glass resulting from poor melting of batch or particle from furnace wall.

3.3 cord

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

3.4 line

Fine parallel line on glass surface in direction of draw.

3.5 nick

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