

**Oftalmiline optika. Poolviimistletud
prilliklaasitorikud. Osa 1:
Monofokaalsete ja multifokaalsete
klaasitorikute tehnilised andmed**

Ophthalmic optics - Semi-finished spectacle lens
blanks - Part 1: Specifications for single-vision and
multifocal lens blanks

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 10322-1:2006 sisaldab Euroopa standardi EN ISO 10322-1:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 30.03.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 10322-1:2006 consists of the English text of the European standard EN ISO 10322-1:2006.</p> <p>This document is endorsed on 30.03.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This part of ISO 10322 specifies requirements for the optical and geometrical properties of semi-finished single-vision and multifocal spectacle lens blanks.</p>	<p>Scope: This part of ISO 10322 specifies requirements for the optical and geometrical properties of semi-finished single-vision and multifocal spectacle lens blanks.</p>
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Võtmesõnad: geomeetrilised parameetrid, klassifikatsioon, oftalmiline optika, optiline instrumentarium, optilised omadused, prilliklaasid, sildiga märgistamine, tehnilised andmed, testimine

English Version

**Ophthalmic optics - Semi-finished spectacle lens blanks - Part 1:
Specifications for single-vision and multifocal lens blanks (ISO
10322-1:2006)**

Optique ophtalmique - Verres de lunettes semi-finis - Partie
1: Spécifications pour les verres unifocaux et multifocaux
(ISO 10322-1:2006)

Augenoptik - Einseitig fertige Brillenglasblanks - Teil 1:
Festlegungen für Ein- und Mehrstärken-Brillenglasblanks
(ISO 10322-1:2006)

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Foreword

This document (EN ISO 10322-1:2006) has been prepared by Technical Committee ISO/TC 172 "Optics and optical instruments" in collaboration with Technical Committee CEN/TC 170 "Ophthalmic optics", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2006, and conflicting national standards shall be withdrawn at the latest by August 2006.

This document supersedes EN ISO 10322-1:1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 10322-1:2006 has been approved by CEN as EN ISO 10322-1:2006 without any modifications.

**Ophthalmic optics — Semi-finished
spectacle lens blanks —**

**Part 1:
Specifications for single-vision
and multifocal lens blanks**

Optique ophtalmique — Verres de lunettes semi-finis —

Partie 1: Spécifications pour les verres unifocaux et multifocaux



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Foreword

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ISO 10322-1 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

This third edition cancels and replaces the second edition (ISO 10322-1:1996), which has been technically revised.

ISO 10322 consists of the following parts, under the general title *Ophthalmic optics — Semi-finished spectacle lens blanks*:

- *Part 1: Specifications for single-vision and multifocal lens blanks*
- *Part 2: Specifications for progressive power lens blanks*

Ophthalmic optics — Semi-finished spectacle lens blanks —

Part 1: Specifications for single-vision and multifocal lens blanks

1 Scope

This part of ISO 10322 specifies requirements for the optical and geometrical properties of semi-finished single-vision and multifocal spectacle lens blanks.

NOTE The requirements for semi-finished progressive power lens blanks are given in ISO 10322-2.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7944, *Optics and optical instruments — Reference wavelengths*

ISO 8598, *Optics and optical instruments — Focimeters*

ISO 13666, *Ophthalmic optics — Spectacle lenses — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13666 and the following apply.

3.1

focal-point-on-axis focimeter

FOA focimeter

focimeter in which the focal point of the beam remains on the axis of the focimeter when the lens under test is measured at a point on the lens where prism is not zero

See Figure 1.

NOTE Examples of this design include all manual focusing focimeters and some automatic focimeters.

3.2

infinite-on-axis focimeter

IOA focimeter

focimeter in which the collimated beam coincides with the focimeter axis and the focal point of the beam goes off the axis of the focimeter when the lens under test is measured at a point of the lens where prism is not zero

See Figure 2.

NOTE Some automatic focimeters use this design.