
**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

Sample Document

get full document from standards.iteh.ai



Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Classification	1
5 Requirements	1
5.1 General.....	1
5.2 Optical requirements for the finished surface.....	1
5.2.1 General.....	1
5.2.2 Tolerances on the surface power of single-vision and multifocal lens blanks.....	2
5.2.3 Uniformity of the surface power of lens blanks with nominally spherical surfaces.....	2
5.2.4 Tolerances on the intended surface cylindrical power.....	2
5.2.5 Tolerances on the surface addition power for multifocal lens blanks.....	2
5.3 Geometrical tolerances.....	3
5.3.1 Tolerances on the size.....	3
5.3.2 Tolerances on thickness.....	3
5.3.3 Segment tolerances for multifocal lens blanks.....	3
6 Test methods	4
6.1 General.....	4
6.2 Determination of surface power.....	4
6.3 Addition power measurement.....	4
6.3.1 General.....	4
6.3.2 Measurement.....	5
6.4 Segment dimensions and position measurement method.....	5
6.5 Inspection method for material and surface quality.....	5
7 Marking and identification	6
7.1 Marking.....	6
7.2 Identification required on the package.....	6
7.3 Information to be made available.....	6
8 Reference to this part of ISO 10322	7
Annex A (informative) Material and surface quality	8
Annex B (informative) Conversion of surface power tolerances from the refractive index of the lens blank to that of an instrument's fixed reference	9
Annex C (normative) Addition power measurement by transmission	10

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

This fourth edition cancels and replaces the third edition (ISO 10322-1:2006), 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 and degressive-power lens blanks*

Introduction

Compared with previous editions, this part of ISO 10322 now applies to all types of semi-finished single-vision and multifocal lens blanks.

Sample Document

get full document from standards.iteh.ai