

BS EN ISO 10685-3:2012



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Ophthalmic optics — Spectacle frames and sunglasses electronic catalogue and identification

Part 3: Technical information (ISO
10685-3:2012)

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This British Standard is the UK implementation of EN ISO 10685-3:2012.

The UK participation in its preparation was entrusted to Technical Committee CH/172/3, Spectacles.

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

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English Version

Ophthalmic optics - Spectacle frames and sunglasses electronic catalogue and identification - Part 3: Technical information (ISO 10685-3:2012)

Optique ophtalmique - Catalogue de montures de lunettes et de lunettes de soleil et identification - Partie 3: Informations techniques (ISO 10685-3:2012)

Augenoptik - Elektronischer Katalog und Warenbezeichnung für Brillenfassungen und Sonnenbrillen - Teil 3: Technische Daten (ISO 10685-3:2012)

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Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

This document (EN ISO 10685-3:2012) has been prepared by Technical Committee ISO/TC 172 "Optics and photonics" 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of an identical text or by endorsement, at the latest by May 2013, and conflicting national standards shall be withdrawn at the latest by May 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 10685-3:2012 has been approved by CEN as a EN ISO 10685-3:2012 without any modification.

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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ISO 10685-3 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

ISO 10685 consists of the following parts, under the general title *Ophthalmic optics — Spectacle frames and sunglasses electronic catalogue and identification*:

- *Part 1: Product identification and electronic catalogue product hierarchy*
- *Part 2: Commercial information*
- *Part 3: Technical information*

Ophthalmic optics — Spectacle frames and sunglasses electronic catalogue and identification —

Part 3: Technical information

1 Scope

This part of ISO 10685 specifies the technical information and file format used for trading spectacle frames and sunglasses and to optimize the trading and processing of lenses for a given frame.

This part of ISO 10685 includes sunglass clip-ons.

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 8624, *Ophthalmic optics — Spectacle frames — Measuring system and terminology*

ISO 10685-1, *Ophthalmic optics — Spectacle frames and sunglasses electronic catalogue and identification — Part 1: Product identification and electronic catalogue product hierarchy*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

technical information

information needed to optimize the trading and processing of lenses for a given frame

4 Technical information

4.1 Identification

Any technical information requires the appropriate frame identification as specified in ISO 10685-1. Commercial information is available in ISO 10685-2.

4.2 Technical data for frames item catalogue

Tables 1 and 2 specify the fields used to identify the technical information portion of the electronic frame item catalogue. Additional information and examples are available in Annex A.

- The “name” column defines the tag and attribute names within the XML file (see Annex B for schema definition).
- The “O/M” column indicates whether a field is optional (O) or mandatory (M).
- The “format” column indicates the data type, e.g. TEXT.

- The “length” column indicates the field character length. The decimal lengths listed do not include the decimal point or the sign. For example, a field with the length of 3 could contain ‘100’, ‘10.1’ or ‘-1.01’. Data items in binary format are not limited in length.
- The “description” column is the description of the field.

Table 1 — Spectacle frame and sunglasses information for the technical portion of the electronic frame catalogue

NAME	O/M	FORMAT	LENGTH	DESCRIPTION
Former	0	BOOLEAN	1	LENS FORMER AVAILABILITY
Hbox	0	DECIMAL	Max 4	LENS WIDTH (MM)
Vbox	0	DECIMAL	Max 4	LENS HEIGHT (MM)
Dbl	0	DECIMAL	Max 4	DISTANCE BETWEEN LENSES
Tmplng	0	DECIMAL	3	OVERALL LENGTH OF SIDE
Fed	0	DECIMAL	4	FRAME EFFECTIVE DIAMETER
Ledg	0	TEXT	1	TYPE OF LENS EDGE
Gdepth	0	DECIMAL	Max 3	GROOVE DEPTH IN THE LENS OF A SEMI-RIMLESS
Gwidth	0	DECIMAL	Max 3	GROOVE WIDTH IN THE LENS OF A SEMI-RIMLESS
Panto	0	INTEGER	Max 2	FRAME PANTOSCOPIC ANGLE (ANGLE OF SIDE)
Fcrv	0	INTEGER	3	FRAME CURVE EXPRESSED IN CORRESPONDING BASE VALUE IN DIOPTRES
Ffang	0	INTEGER	Max 2	FACE FORM ANGLE
Traces	0	TABLE	—	SEE TABLE 2.
Drillpnts	0	Table	—	SEE TABLE 3.
Fprodesc	0	TEXT	255	FRAME PROCESSING INSTRUCTIONS
Rxable	0	BOOLEAN	1	MANUFACTURER'S ASSERTION AS TO THE ABILITY TO INSERT AND RETAIN PRESCRIPTION LENSES IN THE FRAME

Table 2 — Traces

NAME	O/M	FORMAT	LENGTH	DESCRIPTION
Traceid	M	INTEGER	Max 14	TRACE ID
Traceweb	0	BOOLEAN	1	TRACE DATA IS AVAILABLE ON WEBSITE
Ftrc	0	TEXT	Max 50	FRAME TRACE DATA LINK
Trcfmt	0	BINARY	—	TRACE DATA
Trcshapeidref	0	INTEGER	Max 14	SHAPE ID OF THE RELATED SHAPE ONLY AVAILABLE IF ISO 10685-2 (COMMERCIAL INFORMATION) IS INCLUDED