
Watch-cases and accessories — Gold alloy coverings —

**Part 1:
General requirements**

*Boîtes de montres et leurs accessoires — Revêtements d'alliage d'or —
Partie 1: Exigences générales*



Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO 3160-1 was prepared by Technical Committee ISO/TC 114, *Horology*, Subcommittee SC 6, *Precious metal coverings*.

This third edition cancels and replaces the second edition (ISO 3160-1:1995), which has been technically revised.

ISO 3160 consists of the following parts, under the general title *Watch-cases and accessories — Gold alloy coverings*:

- *Part 1: General requirements*
- *Part 2: Determination of fineness, thickness, corrosion resistance and adhesion*
- *Part 3: Abrasion resistance tests of a type of coating on standard gauges*

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Watch-cases and accessories — Gold alloy coverings —

Part 1: General requirements

1 Scope

This part of ISO 3160 specifies general requirements concerning gold alloy coverings.

It is applicable to watch-cases and their accessories, including bracelets.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 3160. 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 3160 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 3160-2:1992, *Watch cases and accessories — Gold alloy coverings — Part 2: Determination of fineness, thickness, corrosion resistance and adhesion.*

ISO 3160-3:1993, *Watch cases and accessories — Gold alloy coverings — Part 3: Abrasion resistance tests of a type of coating on standard gauges.*

3 Definitions

For the purposes of this part of ISO 3160, the following definitions apply.

3.1

gold-plated covering

covering achieved with a method by which a layer of gold alloy is applied to the component by an electrolytic, chemical or other process

3.2

rolled-gold covering

covering achieved with a method by which a layer of gold alloy is bonded to a sheet or a bar of base metal, the whole then being subjected to reduction by rolling

3.3

gold capping

gold covering which can be obtained by different methods in order to be permanently affixed to the component

3.4 significant surface

that part of the surface which is to receive the gold covering and which is essential to the appearance or function of the component

3.5 fineness

proportion of pure gold contained in the gold alloy, normally expressed in thousandths

NOTE 41,67 thousandths = 1 carat

4 Fineness of gold alloy

4.1 Gold-plated covering

The minimum fineness shall be 585 thousandths.

4.2 Rolled-gold covering

The minimum fineness shall be 585 thousandths.

4.3 Gold capping

The minimum fineness shall be 585 thousandths.

5 Measurement of thickness of covering

The thickness of the covering shall be measured in accordance with one of the methods described in ISO 3160-2.

6 Thickness of coverings

6.1 Gold-plated covering

The range of nominal thicknesses shall be the following, in micrometres (formerly known as "microns"):

5 - 10 - 20 - 40 - 80

with a tolerance of -20 %.

6.2 Rolled-gold covering

The range of nominal thicknesses shall be the following, in micrometres (formerly known as "microns"):

5 - 10 - 20 - 40 - 80

with a tolerance of -20 %.

6.3 Gold capping

The range of nominal thicknesses shall be the following, in micrometres (formerly known as "microns"):

200 - 250 - 300

with a tolerance of -20 %.