
International Standard



3160/1

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

**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

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Watch cases and accessories — Gold alloy coverings — Part 1: General requirements

0 Introduction

International Standard ISO 3160 consists of three parts:

Part 1: General requirements.

Part 2: Determination of fineness, thickness and corrosion resistance.

Part 3: Mechanical properties.¹⁾

1 Scope and field of application

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

It applies to watch cases, their accessories and crowns, including bracelets when they are permanently attached to the case.

2 Reference

ISO 3160/2, *Watch cases and accessories — Gold alloy coverings — Part 2: Determination of fineness, thickness and corrosion resistance.*

3 Definitions

3.1 gold plated covering: Covering achieved with a method by which a layer of gold alloy is applied to the component by 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 bar of base metal, the whole then being subjected to reduction by rolling.

3.3 gold capping: Covering achieved with a method by which a cap of gold alloy produced separately is 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 serviceability of the component.

3.5 fineness: The proportion of pure gold contained in the gold alloy, normally expressed in thousandths (41,67 thousandths = 1 carat).

4 Fineness of gold alloy

4.1 Gold plated covering

585 thousandths minimum.

4.2 Rolled gold covering

417 thousandths minimum.

4.3 Gold capping

585 thousandths minimum.

5 Measurement of thickness of covering

The thickness of the covering shall be measured according to one of the methods described in ISO 3160/2.

6 Thickness of coverings

6.1 Gold plated covering

The range of nominal thickness is the following:

0,5 — 1 — 2 — 5 — 10 — 20 — 40 — 80 µm,

with a tolerance of — 20 %.

6.2 Rolled gold covering

The range of nominal thickness is the following:

2 — 5 — 10 — 20 — 40 — 80 µm,

with a tolerance of — 20 %.

6.3 Gold capping

The range of nominal thickness is the following:

200 — 250 — 300 µm,

with a tolerance of — 50 %.

1) In preparation.