International Standard

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Jewellery and precious metals — Gold alloy coatings

Joaillerie, bijouterie et métaux précieux — Revêtements d'alliages d'or

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Foreword

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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 document 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).

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This document was prepared by Technical Committee ISO/TC 174, *Jewellery and precious metals.*

This second edition cancels and replaces the first edition (ISO 10713:1992), which has been technically revised.

The main changes are as follows:

— Introduction was added;

— Clause 2 was updated;

— Clause 3 was added;

— Requirements for coating thickness were revised;

— Methods for measuring gold thickness were revised;

— Table 1 and Table 2 were updated.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

This document defines the terms 'rolled gold' and 'gold plated' in terms of minimum mass, thickness, and fineness of the applied gold alloy coating. It also establishes a marking classification for purchasers to identify these essential features.

This document applies to gold and gold alloy coatings used in jewellery (both precious and non-precious), general decorative items, and other specialised applications in the jewellery trade that require a relatively thick coating. However, it does not modify the provisions of national regulations or Assay & Hallmarking laws in countries where statutory hallmarking is practised. When requesting plating in accordance with this document, the purchaser specifies the nature of the base metal and the required coating classification number in addition to referencing this document.

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Jewellery and precious metals — Gold alloy coatings

1 Scope

This document outlines specifications for gold and gold alloy coatings, including double, multi-layered, and rolled gold coatings, by defining the minimum mass, thickness, and fineness requirements. The specifications apply to all gold coatings, whether applied on precious or non-precious jewellery and general decorative items. Additionally, this document defines the current vocabulary for gold alloy coatings.

This document does not apply to watch-cases and their accessories, including bracelets permanently attached to the case.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes the requirements 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 3160-2, *Watch-cases and accessories — Gold alloy coverings — Part 2: Determination of fineness, thickness, corrosion resistance and adhesion*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
gold fineness
content of gold, expressed as parts per thousand (‰) by mass

3.2
gold plated covering
layer of gold or gold alloy with a fineness of at least 585 parts per thousand (‰), applied through an electrolytic, chemical, or other non-mechanical process

3.3
rolled gold covering
mechanically applied layer of gold or gold alloy with a fineness of at least 585 parts per thousand (‰)

3.4
decorative item
object designed with the visual appeal of jewellery but distinct in function

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