BS EN ISO 9202:2016



BSI Standards Publication

Jewellery — Fineness of precious metal alloys (ISO 9202:2014)



National foreword

This British Standard is the UK implementation of EN ISO 9202:2016. It is identical to ISO 9202:2014. It supersedes BS EN 29202:1993 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee STI/53, Specifications and test methods for jewellery and horology.

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

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EUROPEAN STANDARD

EN ISO 9202

NORME EUROPÉENNE **EUROPÄISCHE NORM**

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English Version

Jewellery - Fineness of precious metal alloys (ISO 9202:2014)

Joaillerie, bijouterie - Titre des alliages de métaux précieux (ISO 9202:2014)

Schmuck - Feingehalt von Edelmetalllegierungen (ISO 9202:2014)

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European foreword

The text of ISO 9202:2014 has been prepared by Technical Committee ISO/TC 174 "Jewellery" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 9202:2016.

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of an identical text or by endorsement, at the latest by April 2017, and conflicting national standards shall be withdrawn at the latest by April 2017.

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Endorsement notice

The text of ISO 9202:2014 has been approved by CEN as EN ISO 9202:2016 without any modification.

| Co | ontents | Page |
|------|---|------|
| Fore | reword | iv |
| Intr | duction | |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Analytical methods for determining fineness | 1 |
| 5 | Range of fineness | 2 |

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 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).

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The committee responsible for this document is ISO/TC 174, Jewellery.

 $This second \ edition\ cancels\ and\ replaces\ the\ first\ edition\ (ISO\ 9202:1991), which\ has\ been\ technically\ revised.$

The major technical changes are the following:

- a) inclusion of a recommended method in Table 1;
- b) deletion of carat in Table 1;
- c) addition of finesses in Table 1;
- d) International Standard was editorially revised.

Introduction

The following definitions apply in understanding how to implement an ISO International Standard and other normative ISO deliverables (TS, PAS, IWA).

- "shall" indicates a requirement;
- "should" indicates a recommendation;
- "may" is used to indicate that something is permitted;
- "can" is used to indicate that something is possible, for example, that an organization or individual is able to do something.

ISO/IEC Directives, Part 2 (sixth edition, 2011), 3.3.1 defines a requirement as an "expression in the content of a document conveying criteria to be fulfilled if compliance with the document is to be claimed and from which no deviation is permitted."

ISO/IEC Directives, Part 2 (sixth edition, 2011), 3.3.2 defines a recommendation as an "expression in the content of a document conveying that among several possibilities one is recommended as particularly suitable, without mentioning or excluding others, or that a certain course of action is preferred but not necessarily required, or that (in the negative form) a certain possibility or course of action is deprecated but not prohibited."

Jewellery — Fineness of precious metal alloys

1 Scope

This International Standard specifies a range of fineness of precious metal alloys (excluding solders) recommended for use in the field of jewellery.

National legal requirements for the designation, marking, and stamping of finished articles in the respective countries have to be taken into account.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 11210, Jewellery — Determination of platinum in platinum jewellery alloys — Gravimetric method after precipitation of diammonium hexachloroplatinate

ISO 11426, Jewellery — Determination of gold in gold jewellery alloys — Cupellation method (fire assay)

ISO 11427, Jewellery — Determination of silver in silver jewellery alloys — Volumetric (potentiometric) method using potassium bromide

ISO 11490, Jewellery — Determination of palladium in palladium jewellery alloys — Gravimetric determination with dimethylglyoxime

ISO 11494, Jewellery — Determination of platinum in platinum jewellery alloys — ICP OES method using yttrium as internal standard element

ISO 11495, Jewellery — Determination of palladium in palladium jewellery alloys — ICP OES method using yttrium as internal standard element

ISO 13756, Determination of silver in silver jewellery alloys — Volumetric (potentiometric) method using sodium chloride or potassium chloride

ISO 15093, Jewellery — Determination of precious metals in 999 ‰ gold, platinum and palladium jewellery alloys — Difference method using ICP-OES

ISO 15096, Jewellery — Determination of silver in 999 ‰ silver jewellery alloys — Difference method using ICP-0ES

3 Terms and definitions

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

3.1

fineneco

minimum content of the named precious metal, measured in terms of parts per thousand (%) by weight of alloy

4 Analytical methods for determining fineness

For determining the fineness of precious metal alloys, one of the following test methods shall be used: ISO 11210, ISO 11426, ISO 11427, ISO 11490, ISO 11494, ISO 11495, ISO 13756, ISO 15093, or ISO 15096.

The recommended methods are listed in Table 1.

5 Range of fineness

Table 1 — Fineness of precious metal alloys

| Precious metal | Fineness ^a min. | Recommended method |
|----------------|--------------------------------------|------------------------|
| | 333b | |
| | 375 | |
| | 417 | |
| | 585 | ISO 11426 |
| Gold | 750 | |
| | 916 | |
| | 990 | |
| | 999 | ISO 11426 or ISO 15093 |
| | 500 | |
| | 600 | |
| | 850 | ISO 11210 |
| Platinum | 900 | ISO 11494 |
| | 950 | |
| | 990 | |
| | 999 | ISO 15093 |
| | 500 | 100 11100 |
| D 11 11 | 950 | ISO 11490 |
| Palladium | 990 | ISO 11495 |
| | 999 | ISO 15093 |
| | 800 | |
| | 925 | ISO 11427 |
| Silver | 958 | ISO 13756 |
| | 990 | |
| | 999 | ISO 15096 |

a The fineness is stated as minimum value. No minus tolerance is allowed.

b Values are given in parts per thousand (%).





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