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Nakit in plemenite kovine - Čistine zlitin plemenitih kovin (ISO/DIS 9202:2018)

Jewellery and precious metals - Fineness of precious metal alloys (ISO/DIS 9202:2018)

Schmuck und Edelmetalle - Feingehalt von Edelmetalllegierungen (ISO/DIS 9202:2018)

Joaillerie, et métaux précieux - Titre des alliages de métaux précieux (ISO/DIS 9202:2018)

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Jewellery and precious metals — Fineness of precious metal alloys

Joaillerie, et métaux précieux — Titre des alliages de métaux précieux

ICS: 39.060

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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 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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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

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

This third edition cancels and replaces the second edition (ISO 9202:2014), which has been technically revised.

The major technical changes are the following: a62/sist-en-iso-9202-2019

- a) deletion of finenesses 500 and 600 for platinum;
- b) update of normative references;
- c) Document 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."

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Jewellery and precious metals — Fineness of precious metal alloys

1 Scope

This document 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)¹⁾

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 almost and additional palladium in palladium jewellery alloys — Gravimetric determination with dimethylglyoxime almost and additional palladium in palladium jewellery alloys — Gravimetric determination with dimethylglyoxime almost and additional palladium in palladium jewellery alloys — Gravimetric determination with dimethylglyoxime almost and additional palladium in palladium jewellery alloys — Gravimetric determination with dimethylglyoxime almost and additional palladium in palladium jewellery alloys — Gravimetric determination with dimethylglyoxime almost and additional palladium in palladium jewellery alloys — Gravimetric determination with dimethylglyoxime almost alloys and additional palladium in pallad

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, Jewellery — 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 0/00 gold, platinum and palladium jewellery alloys — Difference method using ICP-OES

ISO 15096, Jewellery — Determination of silver in 999 0/00 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

fineness

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

¹⁾ under preparation

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	
Gold	417	
	585	ISO 11426
	750	
	916	
	990	
iTob (999	ISO 11426 or ISO 15093
11611	850 AIN	
	(stan 900 rds i	ISO 11210
Platinum	950	ISO 11494
	SIS 990 NI ISO 0000	1-2010
https://standards	iteh ai/cata 999/standards/s	ISO 15093
-	1a59c302/ 500 2/sist-en-iso	ISO 11490
Palladium	950	ISO 11495
- 44	990	
	999	ISO 15093
	800	
	925	ISO 11427
Silver	958	ISO 13756
	990	
The fineness is state	999	ISO 15096

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

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