

SLOVENSKI STANDARD SIST EN ISO 11210:1998

01-april-1998

Določevanje platine v zlitinah za nakit iz platine - Gravimetrična metoda po obarjanju diamonijevega heksakloroplatinata (ISO 11210:1995)

Determination of platinum in platinum jewellery alloys - Gravimetric method after precipitation of diammonium hexachloroplatinate (ISO 11210:1995)

Bestimmung von Platin in Platin-Schmucklegierungen - Gravimetrische Bestimmung nach Fällung als Diammoniumhexachloroplatinat (ISO 11210:1995)/

(standards.iteh.ai)

Dosage du platine dans les alliages de platine pour la bijouterie-joaillerie - Méthode gravimétrique apres précipitation de l'hexachloroplatinate de diammonium (ISO

11210:1995) https://standards.iteh.ai/catalog/standards/sist/523314b7-4867-4bb9-add5-00643cc90b48/sist-en-iso-11210-1998

Ta slovenski standard je istoveten z: EN ISO 11210:1995

ICS:

39.060 Nakit Jewellery

SIST EN ISO 11210:1998 en

SIST EN ISO 11210:1998

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 11210:1998

https://standards.iteh.ai/catalog/standards/sist/523314b7-4867-4bb9-add5-00643cc90b48/sist-en-iso-11210-1998

EUROPEAN STANDARD

EN ISO 11210

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1995

ICS 39.060

Descriptors:

jewellery, platinum alloys, chemical analysis, determination of content, platinum, gravimetric analysis

English version

Determination of platinum in platinum jewellery alloys - Gravimetric method after precipitation of diammonium hexachloroplatinate (ISO 11210:1995)

Dosage du platine dans les alliages de platine DARD PRE Bestimmung von Platin in pour la bijouterie-joaillerie Méthode DARD PRE Platin-Schmucklegierungen - Gewichtsanalytische gravimétrique après précipitation de Bestimmung durch Fällung als l'hexachloroplatinate de diammonium ards.iteh. a Diammonium-Hexachloroplatinat (ISO 11210:1995)

SIST EN ISO 11210:1998

https://standards.iteh.ai/catalog/standards/sist/523314b7-4867-4bb9-add5-00643cc90b48/sist-en-iso-11210-1998

This European Standard was approved by CEN on 1995-04-27. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart,36 B-1050 Brussels

Page 2 EN ISO 11210:1995

Foreword

The text of the International Standard ISO 11210:1995 has been prepared by Technical Committee ISO/TC 174 "Jewellery" in collaboration with CEN/TC 283 "Precious metals - Applications in jewellery and associated products". It has been submitted to Parallel Vote and has been approved by CEN on 1995-04-27 as a European Standard.

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 November 1995, and conflicting national standards shall be withdrawn at the latest by November 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 11210:1995 was approved by CEN as a European Standard without any modification.

(standards.iteh.ai)

<u>SIST EN ISO 11210:1998</u> https://standards.iteh.ai/catalog/standards/sist/523314b7-4867-4bb9-add5-00643cc90b48/sist-en-iso-11210-1998

Page 3 EN ISO 11210:1995

Annex ZA (normative)
Normative references to international publications with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

Publication	Year	Title	EN	Year
ISO 9202	1991	Jewellery - Fineness of precious metal Alloys	EN 29202	1992

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN ISO 11210:1998</u> https://standards.iteh.ai/catalog/standards/sist/523314b7-4867-4bb9-add5-00643cc90b48/sist-en-iso-11210-1998 **SIST EN ISO 11210:1998**

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 11210:1998

https://standards.iteh.ai/catalog/standards/sist/523314b7-4867-4bb9-add5-00643cc90b48/sist-en-iso-11210-1998

SIST EN ISO 11210:1998

INTERNATIONAL STANDARD

ISO 11210

> First edition 1995-05-01

Determination of platinum in platinum jewellery alloys — Gravimetric method after precipitation of diammonium

iTeh S'hexachloroplatinateEW

(standards.iteh.ai)

Dosage du platine dans les alliages de platine pour la bijouterie — Joaillerie N-1 Méthode gravimétrique après précipitation de https://standards.li/hexachloroplatinate.ide/diammonium4bb9-

add5-00643cc90b48/sist-en-iso-11210-1998



ISO 11210:1995(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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

International Standard ISO 11210 was prepared by Technical Committee ISO/TC 174, Jewellery.

SIST EN ISO 11210:1998

Annex A of this International Standardsis for sinformation only dards/sist/523314b7-4867-4bb9-add5-00643cc90b48/sist-en-iso-11210-1998

© ISO 1995

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Determination of platinum in platinum jewellery alloys — Gravimetric method after precipitation of diammonium hexachloroplatinate

Scope

This International Standard specifies a gravimetric method for the determination of platinum in platinum jewellery alloys, preferably within the range of fineness stated in ISO 9202.

These alloys may contain palladium, iridium, rhodium, copper, cobalt, gold, ruthenium, gallium, chromium, indium and less than 5 % tungsten. Some modifical s.iteh.ai) tions are indicated where palladium, iridium, rhodium, gold or ruthenium are present.

coupled plasma (ICP) emission spectrometry, and a correction applied.

Reagents

During the analysis, unless otherwise stated, use only reagents of recognized analytical grade and only distilled water or water of equivalent purity.

4.1 Hydrochloric acid, 36 % (m/m) to 38 % (m/m), <u>SIST EN ISO 11210</u>. $\rho_{20} = 1,19 \text{ g/cm}^3$.

https://standards.iteh.ai/catalog/standards/sist/523314b7-4867-4bb9-

add5-00643cc90b48/sist-en-is. 4.212 Dilute hydrochloric acid. 18 % (m/m), $\rho_{20} = 1,09 \text{ g/cm}^3$.

Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 9202:1991, Jewellery — Fineness of precious metal alloys.

Principle

The sample is dissolved in aqua regia. After converting the sample solution to a slightly acid medium, the platinum is precipitated as diammonium hexachloroplatinate. The precipitate is converted to metallic platinum. Coprecipitated alloying elements are tested for in the redissolved platinum sponge and measured by, for example, atomic absorption and inductively

- **4.3** Nitric acid, 69 % (m/m), $\rho_{20} = 1,41$ g/cm³.
- 4.4 Ammonium chloride solution (NH₄CI), cold saturated solution.
- 4.5 Reducing gas, such as hydrogen or a hydrogen/nitrogen mixture.
- **4.6 Inert gas**, such as carbon dioxide or nitrogen.

4.7 Aqua regia.

Mix 3 volumes of hydrochloric acid (4.1) and 1 volume of nitric acid (4.3).

WARNING — Aqua regia is potentially hazardous and safety glasses or goggles must be used. Dissolution should be carried out in a well-ventilated fume cupboard.

Apparatus

Ordinary laboratory apparatus and