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Jewellery and precious metals - Determination of silver - Potentiometry using potassium bromide (ISO 11427:2024)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/24

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ICS 39.060

Supersedes EN ISO 11427:2016

English Version

Jewellery and precious metals - Determination of silver - Potentiometry using potassium bromide (ISO 11427:2024)

Joaillerie, bijouterie et métaux précieux - Dosage de l'argent - Méthode potentiométrique utilisant le bromure de potassium (ISO 11427:2024)

Schmuck und Edelmetalle - Bestimmung von Silber in Silberlegierungen - Potentiometrie unter Verwendung von Kaliumbromid (ISO 11427:2024)

This European Standard was approved by CEN on 7 July 2023.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN ISO 11427:2024) has been prepared by Technical Committee ISO/TC 174 "Jewellery and precious metals" in collaboration with Technical Committee CEN/TC 410 “Jewellery and precious metals” the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by October 2024, and conflicting national standards shall be withdrawn at the latest by October 2024.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 11427:2024 has been approved by CEN as EN ISO 11427:2024 without any modification.

International Standard

ISO 11427

Jewellery and precious metals — Determination of silver — Potentiometry using potassium bromide

Joaillerie, bijouterie et métaux précieux — Dosage de l'argent — Méthode potentiométrique utilisant le bromure de potassium

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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,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 410, *Consumer confidence and nomenclature in the diamond industry,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 11427:2014) which has been technically revised.

The main changes are as follows:

— deletion of “in silver alloys” in the title;

— change of the scope by extending it to alloys containing from 100 to 999 parts per thousand;

— addition of oxygen content for reference pure silver in 5.4.

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.

International Standard **ISO 11427:2024(en)**

Jewellery and precious metals — Determination of silver — Potentiometry using potassium bromide

1 Scope

This document specifies a volumetric method for the determination of silver on a material considered homogeneous. The silver content of the sample lies preferably between (100 and 999,0) parts per thousand (‰) by mass. Fineness above 999,0 ‰ can be determined using a spectroscopy method by difference (e.g. ISO 15096).

This method is intended to be used as the reference method for the determination of fineness in alloys covered by ISO 9202.

2 Normative references

There are no normative references in this document.