

**Screening test for the presence of nickel in
articles which are inserted into pierced parts of
the human body and articles intended to come
into direct and prolonged contact with the skin**

National foreword

This Published Document is the UK implementation of CEN/TR 12471:2022. It supersedes PD CR 12471:2002, which is withdrawn.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 committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

This publication is not to be regarded as a British Standard.

© The British Standards Institution 2022
Published by BSI Standards Limited 2022

ISBN 978 0 539 18861 5

ICS 39.060

Compliance with a Published Document cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 March 2022.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

English Version

Screening test for the presence of nickel in articles which
are inserted into pierced parts of the human body and
articles intended to come into direct and prolonged
contact with the skin

Méthode de tri pour la présence de nickel dans les
articles introduits dans les parties percées du corps
humain et les produits destinés à entrer en contact
direct et prolongé avec la peau

Screeningverfahren für die Nickelabgabe aus
Erzeugnissen, die in durchstochene Körperteile
eingeführt werden, und Erzeugnissen, die unmittelbar
und länger mit der Haut in Berührung kommen

This Technical Report was approved by CEN on 24 January 2022. It has been drawn up by the Technical Committee CEN/TC 347.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword	3
Introduction	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions.....	5
4 Principle	5
5 Reagents.....	5
6 Apparatus	6
7 Procedure	7
7.1 Preparation of solutions.....	7
7.1.1 Dimethylglyoxime test solution.....	7
7.1.2 Artificial sweat solution	7
7.1.3 Dithiooxamide test solution.....	7
7.1.4 Sodium acetate buffer solution.....	8
7.1.5 Degreasing solution	8
7.2 Sample preparation — Cleaning of the surfaces to be tested	8
7.3 Test procedure.....	8
7.4 Testing of interlayers or substrates under outer coatings — Abrasion of surfaces.....	10
8 Interpretation of results.....	10
9 Test report.....	11
Bibliography	12

European foreword

This document (CEN/TR 12471:2022) has been prepared by Technical Committee CEN/TC 347 “Methods for analysis of allergens”, the secretariat of which is held by SNV.

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.

This document supersedes CR 12471:2002.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.