
**Usnje - Kemični preskusi za določevanje določenih azo barvil na barvanem usnju -
2. del: Določevanje 4-aminoazobenzena (ISO 17234-2:2011)**

Leather - Chemical tests for the determination of certain azo colorants in dyed leathers -
Part 2: Determination of 4-aminoazobenzene (ISO 17234-2:2011)

Leder - Chemische Prüfungen zur Bestimmung bestimmter Azofarbstoffe in gefärbten
Ledern - Teil 2: Bestimmung von 4-Aminoazobenzol (ISO 17234-2:2011)

Cuir - Essais chimiques pour le dosage de certains colorants azoïques dans les cuirs
teints - Partie 2: Dosage du 4-aminoazobenzène (ISO 17234-2:2011)

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Leather and furs

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English Version

Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 2: Determination of 4-aminoazobenzene (ISO 17234-2:2011)

Cuir - Essais chimiques pour le dosage de certains colorants azoïques dans les cuirs teints - Partie 2: Dosage du 4-aminoazobenzène (ISO 17234-2:2011)

Leder - Chemische Prüfungen zur Bestimmung bestimmter Azofarbstoffe in gefärbten Ledern - Teil 2: Bestimmung von 4-Aminoazobenzol (ISO 17234-2:2011)

This European Standard was approved by CEN on 10 March 2011.

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This European Standard exists 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 CEN-CENELEC Management Centre has the same status as the official versions.

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Foreword

This document (EN ISO 17234-2:2011:2011) has been prepared by Technical Committee CEN/TC 289 “Leather”, the secretariat of which is held by UNI, in collaboration with the International Union of Leather Technologists and Chemists Societies.

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of an identical text or by endorsement, at the latest by September 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.

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

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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INTERNATIONAL STANDARD

**ISO
17234-2**

**IULTCS/IUC
20-2**

First edition
2011-03-15

Leather — Chemical tests for the determination of certain azo colorants in dyed leathers —

Part 2: Determination of 4-aminoazobenzene

iTeh STANDARD PREVIEW
(standards.iteh.ai)
*Cuir — Essais chimiques pour le dosage de certains colorants azoïques
dans les cuirs teints —
Partie 2: Dosage du 4-aminoazobenzène*

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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 a vote.

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

ISO 17234-2 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 289, *Leather*, in collaboration with the Chemical Test Commission of the International Union of Leather Technologists and Chemists Societies (IUC Commission, IULTCS), in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement). This method is technically similar to the method in IUC 20-2.

IULTCS, originally formed in 1897, is a world-wide organization of professional leather societies to further the advancement of leather science and technology. IULTCS has three Commissions, which are responsible for establishing international methods for the sampling and testing of leather. ISO recognizes IULTCS as an international standardizing body for the preparation of test methods for leather.

ISO 17234 consists of the following parts, under the general title *Leather — Chemical tests for the determination of certain azo colorants in dyed leathers*:

- *Part 1: Determination of certain aromatic amines derived from azo colorants*
- *Part 2: Determination of 4-aminoazobenzene*

Leather — Chemical tests for the determination of certain azo colorants in dyed leathers —

Part 2: Determination of 4-aminoazobenzene

1 Scope

This part of ISO 17234 is supplementary to ISO 17234-1 and describes a special procedure to detect the use of certain azo colorants in commodities, which can release 4-aminoazobenzene. The procedure also detects 4-aminoazobenzene (Solvent Yellow 1) which is already available as free amine in commodities without reducing pretreatment.

Azo colorants that are able to form 4-aminoazobenzene generate, under the conditions of ISO 17234-1, the amines aniline and 1,4-phenylenediamine. The presence of these 4-aminoazobenzene colorants cannot be reliably ascertained without additional information (e.g. the chemical structure of the colorant used) or without a special procedure.

The use of certain azo colorants, which may release, by reductive cleavage of their azo group(s), one or more of the other aromatic amines listed in Annex XVII of Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), except 4-aminoazobenzene, cannot be determined quantitatively with this method.

2 Normative references

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

ISO 2418, *Leather — Chemical, physical and mechanical and fastness tests — Sampling location*

ISO 4044, *Leather — Chemical tests — Preparation of chemical test samples*

3 General

Certain azo colorants may release by reductive cleavage of their azo group(s), 4-aminoazobenzene, which is proscribed under Annex XVII of Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Table 1 — 4-aminoazobenzene proscribed under Regulation REACH 1907/2006/Annex XVII

| No. | CAS number | Index number | EC number | Substance |
|-----|------------|--------------|-----------|-------------------|
| 22 | 60-09-3 | 611-008-00-4 | 200-453-6 | 4-aminoazobenzene |