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**Leather — Chemical tests — Preparation
of chemical test samples**

*Cuir — Essais chimiques — Préparation des échantillons pour essais
chimiques*

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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 4044/IUC 3 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 289, *Leather*, in collaboration with the Chemical Tests Commission of the International Union of Leather Technologists and Chemists Societies (IUC Commission, IULTCS), in accordance with the Agreement on technical co-operation between ISO and CEN (Vienna Agreement). It is based on IUC 3 originally published in *J. Soc. Leather Trades Chemists*, 49, pp. 8-10, 1965, and declared an official method of the IULTCS in 1965.

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 sampling and the testing of leather. ISO recognizes IULTCS as an international standardizing body for the preparation of test methods for leather.

This second edition cancels and replaces the first edition (ISO 4044:1977), which has been technically revised.

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Leather — Chemical tests — Preparation of chemical test samples

1 Scope

This International Standard specifies a method for the preparation of a test sample of leather for chemical analysis. This method is applicable to all types of leather.

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 2419, *Leather — Physical and mechanical tests — Sample preparation and conditioning*

3 Principle

Leather is ground in a cutter mill to form “ground leather” or “leather powder”.

4 Apparatus

4.1 Cutter mill, having a blade rotational frequency of 700 to 1 000 revolutions per minute and a perforated sieving plate with 4 mm ($\pm 0,5$ mm) diameter perforations. The mill blades shall be sharp.

5 Preparation of the test sample

Before grinding, the samples of leather should be reduced to small pieces. The precise size of the small pieces is not detailed here as they will be defined by the design of the cutter mill feed system.

Ensure that the cutter mill and sample collecting device are clean.

Water should not be used for cleaning.

If sufficient sample is available, then a few small pieces of test leather should be ground and discarded, with the apparatus being cleaned again before proceeding with grinding the main test sample.

Test pieces that are wet (in excess of 30 % moisture) should be pre-dried at a temperature not exceeding 50 °C. The drying temperature should be selected with consideration of the influence of elevated temperature on the nature of the analyte.

If the samples are dried at elevated temperature, they shall be conditioned according to ISO 2419.

6 Storage of the test sample

The ground test sample shall be mixed thoroughly and placed in a clean, dry, airtight container. The container shall be kept away from localized sources of heat.

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