# INTERNATIONAL STANDARD

IULTCS/IUP 39

First edition 2006-09-15

ISO

22288

## Leather — Physical and mechanical tests — Determination of flex resistance by the vamp flex method

Cuir — Essais physiques et mécaniques — Détermination de la résistance à la flexion à l'aide de la méthode de flexion d'empeigne



Reference number ISO 22288:2006(E) IULTCS/IUP 39:2006(E)

#### PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below

This document is a preview generated by FLS

© ISO 2006

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 either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Case postale 56 • CH-1211 Geneva 20 Tel. + 41 22 749 01 11 Fax + 41 22 749 09 47 E-mail copyright@iso.org Web www.iso.org Published in Switzerland

### 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 Standard Gree 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 22288 was prepared by the Physical Test Commission of the International Union of Leather Technologists and Chemists Societies (DP Commission, IULTCS) in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 289 *Leather*, the secretariat of which is held by UNI. It was published as EN 13335. It is based on IUP 39 published in *J. Soc. Leather Tech. Chem.*, **84** (7), p. 381, 2000, and declared an official method of the IULTCS in March 2001.

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

nett. Charled by The

this document is a preview denerated by EUS

# Leather — Physical and mechanical tests — Determination of flex resistance by the vamp flex method

### 1 Scope

This International Standard specifies a method for determining the wet or dry flex resistance of leather and finishes applied to leather is applicable to all types of leather below 3,0 mm in thickness.

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

ISO 3696, Water for analytical laboratory use — Specification and test methods

### 3 Principle

A test piece is folded grain outwards over two inverted "V" shaped clamps. Relative movement of the clamps flexes the sample producing one downward crease surrounded by four upward creases. The test piece is examined periodically for damage.

### 4 Apparatus

**4.1 Test machine**, including the parts described in 4.1.1 to 4.1.3 and the prease patterns formed by flexing as shown in Figure 1.

**4.1.1** A pair of inverted "V" shaped blocks and clamps, with the axis mounted in a straight line with an angle of  $40^{\circ} \pm 1^{\circ}$  and a tip radius of 6,4 mm  $\pm$  0,5 mm and with a minimum distance between the clamps of 9,5 mm  $\pm$  1,0 mm.

**4.1.2** A means of applying a simple harmonic reciprocating motion to the clamps, to move them apart by 19,0 mm  $\pm$  1,5 mm and return them to the minimum separation at a rate of oscillation of 300 cycles/min  $\pm$  30 cycles/min.

**4.1.3 Counter**, to indicate the number of cycles.