



# SLOVENSKI STANDARD SIST EN 16419:2014

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## Usnje - Semiš usnje - Klasifikacija in zahteve

Leather - Chamois leather - Classification and requirements

Leder - Sämischleder

Cuir - Peau chamoisée - Classification et exigences

Ta slovenski standard je istoveten z: **EN 16419:2014**

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### **ICS:**

59.140.30      Usnje in krzno      Leather and furs

**SIST EN 16419:2014**

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EUROPEAN STANDARD

EN 16419

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2014

ICS 59.140.30

English Version

## Leather - Chamois leather for cleaning purposes - Classification and requirements

Cuir - Peau chamoisée - Classification et exigences

Leder - Sämschleder für Reinigungszwecke -  
Klassifizierung und Anforderungen

This European Standard was approved by CEN on 23 November 2013.

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

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## Foreword

This document (EN 16419:2014) has been prepared by Technical Committee CEN/TC 289 “Leather”, the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by July 2014, and conflicting national standards shall be withdrawn at the latest by July 2014.

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, Turkey and the United Kingdom.

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**EN 16419:2014 (E)****Introduction**

Chamois leather for cleaning purposes is used notably for drying and polishing smooth surfaces, such as car bodies and windows.

Its properties are the rapid absorption and release of water, performances that remain unaltered even after a long usage period.

Chamois leather for cleaning purposes is made only from first choice ovine skins. Generally, chamois leather is trimmed before sale only in order to achieve a homogenous and symmetrical size or shape. Chamois leathers have the natural colour conferred by the oil tanning, homogeneous and uniform all over the surface. Their appearance is soft, velvety on both sides, without any traces of grain, holes, cuts and seams.

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## 1 Scope

This European Standard applies to chamois leather for cleaning purposes and defines both requirements and standard test methods.

## 2 Normative references

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

EN 15987, *Leather - Terminology - Key definitions for the leather trade*

EN ISO 2417, *Leather - Physical and mechanical tests - Determination of the static absorption of water (ISO 2417)*

EN ISO 2418, *Leather - Chemical, physical and mechanical and fastness tests - Sampling location (ISO 2418)*

EN ISO 2419, *Leather - Physical and mechanical tests - Sample preparation and conditioning (ISO 2419)*

EN ISO 2589, *Leather - Physical and mechanical tests - Determination of thickness (ISO 2589)*

EN ISO 3376, *Leather - Physical and mechanical tests - Determination of tensile strength and percentage extension (ISO 3376)*

EN ISO 3377-1, *Leather - Physical and mechanical tests - Determination of tear load - Part 1: Single edge tear (ISO 3377-1)*

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EN ISO 3380, *Leather - Physical and mechanical tests - Determination of shrinkage temperature up to 100 degrees C (ISO 3380)*

EN ISO 4044, *Leather - Chemical tests - Preparation of chemical test samples (ISO 4044)*

EN ISO 4045, *Leather - Chemical tests - Determination of pH (ISO 4045)*

EN ISO 4047, *Leather - Determination of sulphated total ash and sulphated water-insoluble ash (ISO 4047)*

EN ISO 4048, *Leather - Chemical tests - Determination of matter soluble in dichloromethane and free fatty acid content (ISO 4048)*

EN ISO 4684, *Leather - Chemical tests - Determination of volatile matter (ISO 4684)*

EN ISO 5398-1, *Leather - Chemical determination of chromic oxide content - Part 1: Quantification by titration (ISO 5398-1)*

EN ISO 5398-2, *Leather - Chemical determination of chromic oxide content - Part 2: Quantification by colorimetric determination (ISO 5398-2)*

EN ISO 5398-3, *Leather - Chemical determination of chromic oxide content - Part 3: Quantification by atomic absorption spectrometry (ISO 5398-3)*

EN ISO 5398-4, *Leather - Chemical determination of chromic oxide content - Part 4: Quantification by inductively coupled plasma - optical emission spectrometer (ICP-OES) (ISO 5398-4)*

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EN ISO 11646, *Leather - Measurement of area (ISO 11646)*

EN ISO 17072-2, *Leather - Chemical determination of metal content - Part 2: Total metal content (ISO 17072-2)*

EN ISO 17226-1, *Leather - Chemical determination of formaldehyde content - Part 1: Method using high performance liquid chromatography (ISO 17226-1)*

**3 Terms and definitions**

For the purposes of this document, the terms and definitions given in EN 15987 and the following apply.

**3.1****hole**

flaying damage caused by a knife or flaying tool or mechanical operation on the flesh side, completely perforating the hide or skin

**3.2****cut**

mark made on the hide or skin by a knife or flaying tool on the flesh side which has cut into the dermis or skin substance, not completely perforating the hide or skin

**3.3****scar**

defect caused by healed wound, slash, gash or cut due to brand marks, scratches (barbed wire, bramble, damage from transport or dragging, marks from cattle comb, rope marks, etc.), goading hits, surgical operations

**3.4****cockly places**

areas of skin which do not absorb the dressing in the same way as the rest of the skin and are harder in texture and usually darker in colour

**3.5****tanning heavy metals**

tanning metals are Cr, Al, Ti, Zr

**3.6****other heavy metals**

other heavy metals are: Antimony (Sb), Arsenic (As), Barium (Ba), Boron (B), Cadmium (Cd), Cobalt (Co), Copper (Cu), Lead (Pb), Mercury (Hg), Nickel (Ni), Tin (Sn), Zinc (Zn)

**4 Sampling and conditioning**

Samples shall be taken according to EN ISO 2418 and conditioned according to EN ISO 2419.

Analytical results of the characteristics of chamois leather shall be referred to the mean value of the samples coming from the same batch, determined according to EN ISO 4684.

Leather samples for chemical tests shall be conditioned and prepared in accordance with EN ISO 4044.



## 5 Classification by quality

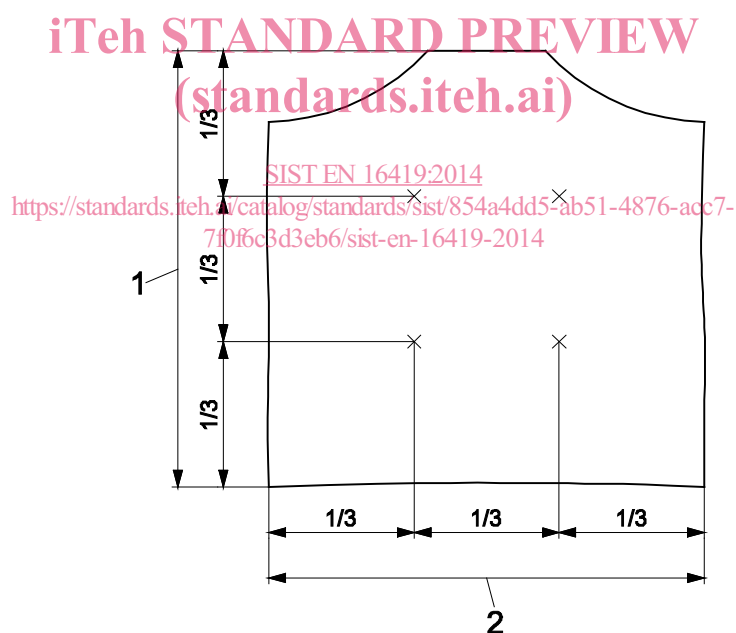
Chamois leathers are classified as following:

### 5.1 First class:

- thin places, holes, cuts, hard and cockly places and healed scars or residual seams and grain traces shall be absent;
- chamois leather shall be of even thickness ( $>0,7$  mm measured according to EN ISO 2589), for the all the points shown in Figure 1;
- chamois leather shall be suede finished on both side.

### 5.2 Second class:

- thickness 0,4 mm - 0,7 mm;
- holes, cuts, hard and cockly places and healed scars or residual seams and grain traces shall be absent; some defect like unhealed scars and slight differences in thickness are allowed;
- chamois leather shall be suede finished on one or both sides.



#### Key

- 1 length  
2 width

Figure 1 — Typical points where chamois leather thickness is measured