



9<sup>th</sup> March, 2010

CEN/TC 289/WG1 & 2 & 3: N 175  
IULTCS/ IUC, IUP & IUF: N 175

**Minutes of Combined meeting of  
CEN/TC 289/WG 1, WG 2 and WG 3  
IULTCS IUC, IUP and IUF**

**SATRA Technology Centre  
Kettering,  
Northamptonshire NN16 8SD, UK**

**Date: 16<sup>th</sup> September, 2009**

**General Issues Related to IU Commissions and CEN Working Groups**

**1. Welcome and agreement of agenda**

The Chairmen, J.C. Castell (WG1/IUC), M. Wilson (WG2/IUP) and C. Page (WG3/IUF) opened the meeting and welcomed all participants.

The experts signed the Attendance list (see Annex A).

**2. Minutes of the last meeting** (Document N 152)

The minutes of the last meeting held at UNI in Milan, Italy on 17th March, 2009 had been circulated and were approved without amendment.

**3. Other IU Commission / CEN TC 289 business**

None

**Meeting of CEN TC 289/WG1 and IUC Commission (J.C. Castell, Chairman)**

**4. Information on progress of current methods (IUC & WG1)**

**4.1 Documents accepted as EN and ISO standards**

**EN ISO 27587 / IUC 26** *Leather – Chemical test – Determination of free formaldehyde in process auxiliaries.*

Formal voting was completed 25th Aug 2009 and the Standard has been approved. It will be published shortly.

**4.2 Documents in parallel CEN/ISO Formal Vote in accordance VA procedure**

**prEN ISO/FDIS 17234-1/ IUC 20-1** *Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 1: Determination of certain aromatic amines derived from azo colorants.*

Formal Vote procedure is going to start in few days.

**4.3 Documents in parallel CEN/ISO Enquiry in accordance VA procedure**

**prEN ISO/DIS 17234-2/IUC 20-2** *Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 2: Determination of 4-aminoazobenzene derived from azo colorants.*

Parallel CEN/ISO Enquiry should start on 2009-09-17. Deadline end of February 2010. Discussions of comments from members are foreseen for the next meeting.

**prEN ISO/DIS 17226-3/IUC 19-3** *Leather - Chemical determination of formaldehyde content — Part 3: Determination of formaldehyde emissions from leather.*

Parallel CEN/ISO Enquiry is going to start at the end of September. Discussions of comments from members are foreseen for the next meeting. Comments from Haiko Schultz will be also considered in the meeting in March.



**prEN ISO/DIS 14088/IUC 32** *Leather — Chemical tests — Quantitative analysis of tanning agents by filter method.*

Parallel CEN/ISO Enquiry should start at the end of September. Discussions of comments from members are foreseen for the next meeting.

**prEN ISO/DIS 13365/IUC 29** *Leather – Chemical tests - Determination of preservative content (TCMTB-OPP-CMK-OIT) in leather*

Parallel CEN/ISO Enquiry should start in October 2009. Discussions of comments from members are foreseen for the next meeting.

## 5. Discussion on active work items (IUC & WG1)

### 5.1 Documents after CEN/ISO Enquiry in accordance VA procedure

**prEN ISO/DIS 17071-1 / IUC 27-1** *Leather – Chemical tests – Part 1: Determination of extractable metal content in leather.*

Discussion on comments from Enquiry (N 158). Voting result from enquiry: Approved

As agreed in the previous CEN/TC 289 WG1 meeting in Milan, resolution 1, E. Scaglia, as responsible for the organization, presents the results of the round robin interlab test carried out by 11 laboratories.

Detection of Pb and Co was the goal of the tests from several leather samples.

Ms. Scaglia commented on the problems faced to have proper leather samples and how to prepare them.

In any case, it is agreed that the results of the test are good as only one laboratory was presenting significant deviation on the obtained values from the others. However, the round robin tests will be repeated with a more precise method description including the measurement of the calibration standard. Final results need to be available by December 2009.

Results from the discussion of comments from the Enquiry (only technical comments):

Clause 1:

- Paragraph 1, line 4, last word, change to Spectrometry instead of Spectrometer
- Paragraph 1, line 4, "-" instead or and add at the end of the sentence "or spectrometry of atomic fluorescence (SFA)"
- Delete Mercury and Nickel as they are listed twice.
- Sodium is not listed as it is used in the preparation of the acid artificial perspiration

Clause 3:

- Modify the last sentence in "The results are reported on the dry matter of the leather"
- Include a note: "if there is not enough sample... copy from Cr(VI) method, clause 6

Clause 5.1:

- Correct the first paragraph as: All glassware, the analytical devices and the materials, shall be suitable for trace metal analysis.

Clause 5.5:

- Spec for membrane type is not accepted as it is not considered relevant.

Clause 5.10

- Include "... or a water bath with magnetic stirrer".
- Copy details of shaking water bath as CEN/ISO 17226 part 1 or 2 (Formaldehyde)

Clauses 5.11 and 5.12:

- Delete as they are not necessary and not mentioned in the document. Therefore clauses 5.13, 5.14 and 5.15 become clauses 5.11, 5.12 and 5.13.

Clause 5.14 (new):

- Spectrometer of atomic fluorescence for the mercury (but then needs to be mentioned in 7.4?)



Clause 6.2:

- The drying procedure needs to be coherent with part 2. Therefore needs to be replace part 1 as:  
Grind the leather sample in accordance with ISO 4044. Leathers whose moisture content is such as to prevent grinding shall first be dried in an oven (5.2).  
Test pieces that are wet (in excess of 30% moisture) should be pre-dried for at least 12 h. at a temperature not exceeding  $50^{\circ}\text{C}\pm 2^{\circ}\text{C}$ . The drying temperature should be selected with consideration of the influence of elevated temperature on the nature of the analyte.

Clause 6.3:

- Delete from 1<sup>st</sup> line "1g to"
- Deletion of sentence "From each lather sampling being tested...", comment from Germany is not considered as clause 3 has been modified.

Clause 6.4:

- Comment from Germany limiting to leather pieces and not to finished articles is not considered necessary and the text is not modified.

Clause 7.1:

- Title include "...to ISO 105-E04, clause 4" in the title.
- Delete until the end of the 1<sup>st</sup> paragraph from 1<sup>st</sup> line "...prepared each day." Then copy from ISO 105-E04 clause 4.
- Between 1<sup>st</sup> and 2<sup>nd</sup> paragraph include: "7.2 Extraction of the leather sample"
- End of 1<sup>st</sup> line of the 2<sup>nd</sup> paragraph (now clause 7.2) modify "... (5.9), add 100 ml by pipette.

Clause 7.2:

- Becomes clause 7.3
- Modify 1<sup>st</sup> line from "If necessary" to "If the solution is not clear after filtration,..."

Clause 7.3.1:

- Delete from 1<sup>st</sup> line "... under vacuum"...

Clause 7.3.1.1:

- (5.13) has become (5.11) due to deletion of 5.11 and 5.12
- Change last line as: "The determination of As, Sb, Sn, Se and Hg may need to be carried out by using an hydride generator"

Clause 7.3.1.2:

- (5.15) has become (5.13) due to deletion of 5.11 and 5.12

Clause 7.3.2

- (5.14) has become (5.12) due to deletion of 5.11 and 5.12.
- Last sentence has to be modified as: "The determination of As, Sb, Sn, Se and Hg may need to be carried out by using an hydride generator".

Clause 7.4 (new):

- Spectrophotometry of atomic fluorescence (SFA) has to be added.

Clause 8:

- Add data on r and R

Clause 9:

- Data on r and R are not necessary to be included in the test report if included in clause 8.

**Resolution 1:** The document will be modified according the results from the discussion of comments from the Enquiry. E. Scaglia will send the modified document to the labs for a new round robin test. As soon as positive results are confirmed the document will be send for FDIS.



**prEN ISO/DIS 17071-2 / IUC 27-2. Document Leather – Chemical tests – Part 2: Determination of total metal content in leather.**

Discussion on comments from Enquiry (N 159). Voting result from enquiry: Approved

As agreed in the previous CEN/TC 289 WG1 meeting in Milan, resolution 1, E. Scaglia, as responsible for the organization, presents de results of the round robin interlab test carried out by 11 laboratories.

Detection of Pb and Co was the goal of the tests from several leather samples.

Ms. Scaglia commented on the problems faced to have proper leather samples and how to prepare them.

In any case, it is agreed that the results of the test are good as only one laboratory was presenting significant deviation on the obtained values from the others. However, the round robin tests will be repeated with a more precise method description including the measurement of the calibration standard. Final results need to be available by December 2009.

Results from the discussion of comments from the Enquiry (only technical comments):

Clause 1:

- Paragraph 1, line 4, last word, change Spectrometry instead Spectrometer
- Paragraph 1, line 4, "-" instead or and add at the end of the sentence "or spectrometry of atomic fluorescence (SFA)"
- Delete mercury and nickel as are specified twice.

Clause 3:

- Modify the last sentence: "The results are reported on the dry matter of the leather"
- Include a note: "if there is not enough sample... copy from Cr(VI) method, clause 6"

Clause 5.1:

- Correct the first paragraph as: All glassware, the analytical devices and the materials, shall be suitable for trace metal analysis.

Clauses 5.10, 5.11 and 5.12.

- Delete EN 13506 because is withdrawn and replace by ISO 17852, that is the following document.

Clause 5.13 (new)

- Spectrometer of atomic fluorescence for the mercury (but then needs to be mentioned in 7.3?)

Clause 6.4:

- Comment from Germany limiting to leather pieces and not to finished articles is not considered necessary and the text is not modified.

Clause 6.5:

- Add at the end: "If using the acid digestion (6.5.1) Pb is detected, the digestion procedure must be repeated but replacing H<sub>2</sub>SO<sub>4</sub> by HCl.

Clause 6.5.1:

- Warning have to change as: "It is imperative that leather sample is not in direct contact with perchloric acid because of the possible explosive reaction"

Clause 6.5.2:

- 2<sup>nd</sup> sentence needs to be modified as: If this is used, then a suitable procedure such as described in EN 14602 can be used.

Clause 6.6.1:

- Warning have to change as: "It is imperative that leather sample is not in direct contact with perchloric acid because of the possible explosive reaction"
- 2<sup>nd</sup> sentence has to be added "...at least 30 min...". Before next sentence include: "If the sample is not completely dissolved, continue the digestion for the necessary time".
- Add at the end: "If using the acid digestion (6.5.1) Pb is detected, the digestion procedure must be repeated but replacing H<sub>2</sub>SO<sub>4</sub> by HCl.



Clause 6.7.1:

- Delete warning as perchloric acid is not used.

Clause 7.2:

- "can be carried out" instead "has to be carried out"

Clause 7.3 (new)

- Spectrophotometry of atomic fluorescence (SFA) has to be added.

Clause 8:

- Correct formula as:

$$Me_x = \frac{[Me_x] \times V_1}{P} \times d$$

- Add data on r and R

Clause 9:

- Data on r and R are not necessary to be included in the test report if included in clause 8.

**Resolution 2:** The document will be modified according the results from the discussion of comments from the Enquiry. E. Scaglia will send the modified document to the labs for a new round robin test. As soon as positive results are confirmed the document will be send for FDIS.

## 5.2 Draft documents for discussion

### **Leather – Chemical tests - Determination of free and ethoxylated nonylphenols in leather.**

Document N 167

PFI organized a round robin interlaboratory test from CEN/TC309/WG2 for the method proposed for shoe materials. PFI had too little material to send samples to SSIP as requested in Resolution 3 of the previous meeting in March.

PFI reported that the results will be available at end of October but so far the results from PFI and CTC are consistent. Satra and the Italian Shoe association are still working.

According to the information provided by CTC and PFI the method proposed in the CEN/TC309/WG2 ring trial is simpler and takes less time than the method proposed in document N167.

In order to agree that CEN/TC289/WG1 & IUC adopts the same method, SSIP will send samples to PFI to be distributed to the four laboratories currently carrying out the round robin interlab test. In order to have the results by the end of October, SSIP has to send the samples immediately.

Therefore, discussions on document N167 are postponed to next meeting in March when results from the round robin interlab test are available.

### **Document Leather – Chemical tests - Determination of organotin compounds in leather by GS/MS method.** Document N 168

CEN/TC309/WG2 is working on the same item and a round robin interlaboratory test is carried out. Compared with the method proposed in N168 the main difference is the extraction process as CEN/TC309/WG2 proposes shorter procedures such microwaves, ash, or ultrasound avoiding a long extraction process. Therefore it is agreed that SSIP and BLC will participate in the interlab test.

Discussions on document N168 are postponed to next meeting in March when results from the round robin interlab test are available.



## 6. Review of published standards under IUC/WG1 responsibility

### 6.1 Decisions on the comments received during systematic reviews

#### **EN ISO 4684:2005 / IUC 5** *Leather - Chemical tests - Determination of volatile matter*

The voting results (N 161) were to re-validate the document.

**Resolution 3:** The Standard EN ISO 4684 / IUC 5 is reconfirmed

#### **EN ISO 4098:2006 / IUC 6** *Leather - Chemical tests - Determination of water-soluble matter, water-soluble inorganic matter and water-soluble organic matter*

The voting results (N 162) were to re-validate the document.

Discussion on comments:

India proposes a sub-clause on the reproducibility and data related. These data are not available at this stage, but could be considered at a future revision.

India proposes to include tropical and subtropical conditions. Since the test results depend on the extraction temperature, the meeting decided not to change the Standard.

**Resolution 4:** The Standard EN ISO 4098 / IUC 6 is reconfirmed

### 6.2 Published EN ISO standards currently under revision process

#### **EN ISO 17070:2006** *Leather - Chemical tests - Determination of pentachlorophenol content*

Voting deadline 2009-12-16.

## 7. Proposals for new work items

### **NWIP Proposal from China on "Leather - Chemical tests - Determination of dimethyl formamide by GC-MS Method"** (Document N 156)

Dimethyl formamide (DMF) is a solvent used during the preparation of PU used in some finishing leather coatings. Due to its toxicity it is restricted in certain regulations.

CEN/TC309/WG2 is working on this item for all materials in shoes. Results on leather will be discussed in the next IUC & CEN/TC289/WG1 meeting in March to see if there need for a leather Standard.

The method proposed from Mr. Ma Hewei is considered by the experts to be rather complicated and expensive for routine practical application. The convenor of IUC & CEN/TC289/WG1 will contact Mr. Ma and express the gratitude of the group of experts for his co-operation in supplying the method.

## 8. Any other business

### **Document under CEN/TS voting procedure on PFOS** (Document N 157)

This document, as Technical Specification FprCEN/TS 15968, "Determination of extractable perfluorooctanesulfonate (PFOS) in coated and impregnated solid articles, liquids and fire fighting foams – Method for sampling, extraction and analysis by LC-MS/MS or LC-MS", has been submitted to CEN members for formal vote as FDIS.

There is a request from Mr. Dan Pigeon from W.L. Gore & Associates to be considered by CEN/TC289/WG1 experts about the possibility of PFOS contamination coming from the cattle. It seems that this firm has detected this substance in raw material from USA and Brazil.

Experts believe that PFOS effectively have a persistent impact in the environment and are bio-accumulative. For this reason there could be a possibility that cattle were contaminated from the environment where they grew. In any case, no leather lab involved in TC289 has ever detected PFOS in raw hides. Dr. J. C. Cannot will contact Mr. Pigeon that if contaminated samples were available some leather testing labs could together with W.L.Gore & Associates analyze the samples and determine the possible causes of such contamination.



There is also a concern of having this method adopted into the POP (Persisting Organic Pollution) requirements. Mr. Gonzalez-Quijano will consider a position of Cotance in case it is considered necessary.

#### **Document ISO/TC 216 N393 (N165) and prEN 15777 (N166) - phthalates**

It refers to the resolution from TC216 to use prEN 15777 for leather and textile. Neither TC289 nor TC309 have been informed. Technically, the method is not suitable for leather according a report from INESCOP. It is important those who are members of TC 216 to vote negatively.

J.C.Castell will comment to Mr. J.I. Aguado, secretariat of TC216 and TC309 and member of TC289, to inform him of our position.

#### **Documents from CEN/TC 309/WG2 for meeting on 10/11 Sept. 2009 and comments from China (N 169)**

As comments from Mr. Ma Hewei refer to the CEN/TC309/WG2 they were forwarded to J.C.Castell for their consideration. J.C. Castell will inform Mr. Ma.

### **Meeting of CEN TC 289/WG2 and IUP Commission, (M. Wilson, Chairman)**

#### **9. Information on progress of current methods (IUP & WG2)**

Documents out for parallel CEN/ISO Enquiry – results will be discussed at next meeting.

**prEN ISO 3376/IUP 6** *Leather – Physical and mechanical tests – Determination of tensile strength and percentage of extension.*

**prEN ISO 5402-1/IUP 20-1** *Leather - Determination of flex resistance – Part 1: Flexometer method.*

**prEN ISO 14087/IUP 54** *Leather – Physical and mechanical tests – Determination of flexural properties.*

**prEN ISO 17076-2/IUP 48-2** *Leather – Determination of abrasion resistance – Part 2: Martindale ball plate method.*

**prEN ISO 17186/IUP 41** *Leather – Physical and mechanical tests - Determination of surface thickness.*

**prEN ISO 17235/IUP 36** *Leather – Physical and mechanical tests – determination of softness.*

#### **10. Review of published standards under IUP/WG2 responsibility**

##### **10.1 Decisions on the comments received during systematic reviews**

**EN ISO 2419:2006 / IUP 1 & 3** *Leather - Physical and mechanical tests - Sample preparation and conditioning.*

A revised version based on the comments received was presented to the experts. It includes tropical conditions in a similar manner to the textile ISO 139 (Draft Amendment version 2008). The modified version of ISO 2419 was unanimously approved by the experts.

**Resolution 5 & 6:** A NWI will be registered and a draft version will be prepared and sent out to a parallel CEN/ISO Enquiry

##### **10.2 Published EN ISO standards currently under ISO revision process**

Documents out for ISO review – results will be discussed at next meeting.

- **ISO 17230:2006 / IUP 45** *Leather - Physical and mechanical tests - Determination of water penetration pressure*

- **ISO 17231:2006 / IUP 37** *Leather - Physical and mechanical tests - Determination of water repellency of garment leather*

- **ISO 17232:2006 / IUP 38** *Leather - Physical and mechanical tests - Determination of heat resistance of patent leather*



- ISO 17071:2006 / IUP 46 *Leather - Physical and mechanical tests - Determination of fogging characteristics*
- ISO 17074:2006 / IUP 47 *Leather - Physical and mechanical tests - Determination of resistance to horizontal spread of flame*

## 11. Documents currently under discussion

**prEN ISO 26082-2 / IUP 53-2** *Leather – Physical and mechanical test method for the determination of soiling – Part 2: Tumbling method*

**Resolution 7:** Document to be sent to CEN/ISO FDIS/UAP procedure

**prEN ISO 26082-1 / IUP 53-1** *Leather – Physical and mechanical test method for the determination of soiling – Part 1: Martindale method*

Mike Wilson will send document to Haiko Schulz for the modifications.

**prEN ISO 14268 / IUP 15** *Leather - Physical and mechanical tests - Determination of water vapour permeability*

Agreed to changes and the revised document should be ready for a parallel CEN/ISO Enquiry.

**prEN ISO 5403-2 / IUP 10-2** *Leather - Determination of water resistance of flexible leather – Part 2: Angular compression method*

**Resolution 8:** After 4 weeks time for final comments the document will be sent to CEN/ISO parallel Enquiry procedure

**prEN ISO 5403-1 / IUP 10-1** *Leather - Determination of water resistance of flexible leather – Part 1: Linear compression method*

**Resolution 9:** The document will be sent to CEN/ISO parallel Enquiry procedure

**prEN ISO 17076-1 / IUP 48-1** *Leather – Determination of abrasion resistance – Part 1: Taber method*

**Resolution 10:** The document will be sent to CEN/ISO parallel Enquiry procedure

**prEN ISO 5404 / IUP11** *Determination of water resistance of heavy leather*

**Resolution 11:** The document will be sent to CEN/ISO parallel Enquiry procedure

**prEN ISO 3377-1 / IUP40-1** *Determination of tear strength – Part 1: Single edge tear*

**Resolution 12:** The document will be sent to CEN/ISO parallel Enquiry procedure

**prEN ISO 5402-2 / IUP39-2 (former EN ISO 22288:2006)** *Leather -Determination of flex resistance - Part 2: Vamp flex method*

**Resolution 13:** After 6 weeks time for final comments the document will be sent to CEN/ISO parallel Enquiry procedure

**prEN ISO 17227 / IUP 35** *Leather – Physical and mechanical tests – Determination of dry heat resistance.*

Agreed to change title to “Determination of the dimensional stability of leather”. Revised document to be prepared for discussion at the next meeting.

## 12. Proposals for new work items

**Soiling and cleanability:** documents N 154 and N 155

## 13. Any other business

None



## **Meeting of CEN TC 289/WG3 and IUF Commission, (C. Page, Chairman)**

### **14. Information on progress of current ISO & EN methods (IUF & WG3):**

#### **14.1 Documents accepted as EN and ISO standards**

**ISO/FDIS 11643/ IUF 434.** *Leather- Tests for colour fastness - Colour fastness of small samples to solvent solutions.* Published in May 2009.

**ISO/FDIS 11644/ IUF 470.** *Leather – Test for adhesion of finish.* Published in May 2009.

#### **14.2 Documents to be submitted to parallel Voting procedures**

None

### **15. Review of published standards under IUF/WG3 responsibility**

The review comments were reported at the last meeting, but there was too little time for discussion , other than to decide the 5 existing Standards should all be modified. The decisions were discussed and the following actions approved.

#### **EN ISO 11640:1998/ISO 11640:1993/IUF 450 - *Colour fastness to cycles of to-and-fro rubbing***

Agreed to revise several parts of the Standard, including the specification and thickness of the wool felts and the possibility of retaining a black dyed felt (mentioned dye is no longer available). Dr. Haiko Schulz and Mr. Felix Frey would assist in preparing the modification.

#### **EN ISO 11641:2003/ISO 11641:1993/IUF 426 - *Colour fastness to perspiration***

**Resolution 14:** Agreed to prepare a modified draft for circulation prior to submitting it for a DIS vote. It would include updates and include the possibility to use acid perspiration solutions.

#### **EN ISO 11642:1998/ISO 11642:1993/IUF 421 - *Colour fastness to water***

**Resolution 15:** Agreed to prepare an updated draft for circulation prior to submitting it for a DIS vote.

#### **EN ISO 17228:2005/IUF 412 – *Change in colour with accelerated ageing***

Agreed to revise several parts of the Standard to review the test conditions, especially those used by the automotive industry and consider including a reference to shrinking of samples. Dr Haiko Schulz will provide some proposals for the modification.

#### **ISO 20433:2005/IUF 452 - *Colour fastness to crocking***

**Resolution 16:** Agreed to prepare an updated draft for circulation prior to submitting for a DIS vote. Agreed to submit the ISO Standard for approval as an EN Standard.

### **16. Proposals for new work items**

None

### **17. Confirmation of Resolutions for CEN/TC 289 Plenary from WG1, WG2 and WG3**

Agreed that the Resolutions would be prepared and circulated after the meeting. (Document N 174).

### **18. Any other business**

None

### **19. Date and location of next meeting**

The next combined meeting of CEN/TC 289 WG1/2/3 & IULTCS will be held on **23<sup>rd</sup> March, 2010** at UNI, Milan. Italy.