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मानक



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IS 14898 (2001): ECO Criteria for Finished Leather [CHD 17: Leather, Tanning Materials and Allied Products]



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“Knowledge is such a treasure which cannot be stolen”



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भारतीय मानक
चमड़े के इको मापदंड — विशिष्टि

Indian Standard

ECO CRITERIA FOR FINISHED LEATHER —
SPECIFICATION

ICS 13.020.50; 59.140.30

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Leather Sectional Committee had been approved by the Chemical Division Council.

The environmental impact of leather processing has been a matter of concern among the users as well as in the leather manufacturers. With the growing awareness of environmental aspects, the concept of environment-friendly leather is becoming more and more popular.

Keeping in view the above, the Ministry of Environment and Forests, Government of India has decided to include finished leather under the ECO Mark Scheme. So far, quality parameters as per Indian Standards have been an inherent part of the ECO Mark criteria. In case of leather it has been felt that, since this is a product, which is traded internationally to a large extent, conformance to Indian Standard may not be relevant most of the time, as in such cases, finished leather is made as per the buyers requirement.

Considering this fact, the ECO Mark Steering Committee decided to modify the existing practice and in this standard, conformance to the buyer's quality requirement has been prescribed to be through self-declaration in case the same doesn't call for conformity to the relevant Indian Standards. In such cases also, for the purpose of certification, the Bureau will certify only the conformity to ECO criteria laid down in this standard and not the quality parameters.

There is no ISO standard on the subject. This standard has been prepared based on the Gazette Notification No. 58 dated 27 January 2000 issued by the Ministry of Environment and Forests, Government of India.

There exists a separate standard, IS 14816 : 2000 'Leather — Method of tests for ECO criteria'.

The composition of the technical committee responsible for the formulation of this standard is given in Annex B.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

ECO CRITERIA FOR FINISHED LEATHER — SPECIFICATION

1 SCOPE

This standard prescribes requirements for ECO-friendly criteria for finished leather.

1.1 This standard does not prescribe the quality parameters for finished leather.

2 REFERENCES

The Indian Standards listed below contain provisions, which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

IS No.	Title
1640 : 1960	Glossary of terms relating to hides, skins and leather
5868 : 1983	Methods of sampling for leather
14575 : 1999	Determination of pentachloro-

IS No.

Title

phenol (PCP) in leather— Methods of test

14816 : 2000 Leather — Method of tests for ECO criteria

3 TERMINOLOGY

For the purpose of this standard the definitions given in IS 1640 shall apply.

4 REQUIREMENTS

4.1 General Requirements

The manufacturers shall produce the consent clearance as per the provisions of *Water (Prevention and Control of Pollution) Act, 1974* and *Air (Prevention and Control of Pollution) Act, 1981* along with the authorization if required under the *Environment Protection Act, 1986* to the certifying agency while applying for ECO Mark certification.

4.2 Product Specific Requirements

The product shall meet ECO criteria as given in Table 1.

Table 1 Product Specific Requirements for ECO Criteria for Finished Leather

Sl No.	Parameters	Limits	Methods of Test as per
(1)	(2)	(3)	(4)
i)	pH of aqueous extract of leather	Not less than 3.5 and in case it is less than 3.5 the difference of pH on dilution by a factor of 10 (differential number), shall not be more than 0.6	LC : 1 of IS 14816
ii)	Formaldehyde, mg/kg, <i>Max</i>	200	LC : 3 of IS 14816
iii)	Pentachlorophenol (PCP), mg/kg, <i>Max</i>	5	IS 14575
iv)	Coupled amines released from azo-dyes (sum parameters), mg/kg, <i>Max</i>	30	LC : 4 of IS 14816
v)	Hexavalent chromium, mg/kg, <i>Max</i>	3	LC : 2 of IS 14816

NOTES

1 The ECO Mark for leather certifies that only ECO related parameters are assured and the quality related parameters are through self-declaration for complying buyer's requirement.

2 The list of Aryl Amines released azo-dyes is given in Annex A.

5 PACKING AND MARKING

5.1 Packing

The material used for product packaging shall be recyclable or reusable or biodegradable.

5.2 Marking

5.2.1 Each package shall be marked with the following information:

- a) Name of manufacturer and recognized trade-mark, if any;
- b) Type of leather (Finished Leather IS 1640);
- c) Number of pieces of leather;
- d) Total area and mass; and
- e) Month and year of manufacture.

5.2.1.1 The packaging shall also display the criteria of labelling of the product environment-friendly.

5.2.2 Finished leathers may be marked with the Standard Mark (that is ECO Mark only and the quality-related parameters are through self-declaration and conforming to buyer's requirement.

5.2.3 The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

6 SAMPLING

For the purpose of verifying conformance of the product to the requirements of this specification, finished leather shall be sampled in accordance with IS 5868.

ANNEX A

(Table 1, Note 2)

LIST OF ARYL AMINES

- | | |
|----------------------------------|---|
| a) 4-Aminodiphenyl | k) 3,3-Dimethylbenzidine |
| b) Benzidine | m) 3,3-Dimethyl-4,4-diaminodiphenylmethane |
| c) 4-Chloro- <i>o</i> -toluidine | n) <i>p</i> -Cresidin (2-Methoxy 5-methylaniline) |
| d) 2-Naphthylamine | p) 4,4-Methylene-bis (2-chloraniline) |
| e) <i>p</i> -Chloraniline | q) 4,4-Oxydianiline |
| f) 2,4-Diaminoanisole | r) 4,4-Thiodianiline |
| g) 4,4-Diaminodiphenylmethane | s) <i>o</i> -Toluidine |
| h) 3,3-Dichlorobenzidine | t) 2,4-Toluenediamine |
| j) 3,3-Dimethoxy-benzidine | u) 2,4,5-Trimethylaniline |

ANNEX B

(Foreword)

COMMITTEE COMPOSITION

Leather Sectional Committee, CHD 17

<i>Chairman</i>	<i>Representing</i>
DR T. RAMASAMI	Central Leather Research Institute (CSIR), Chennai
<i>Members</i>	
SHRI ANIL AGARWAL	Ministry of Defence (R & D)
SHRI M. K. AWASTHI (<i>Alternate</i>)	
SHRI SHAHEEQE AHMED	Indian Finished Leather Manufacturers and Exporters Association, Chennai
SHRI V. P. NAIMUR RAHMAN (<i>Alternate</i>)	
SHRI S. K. BASU	Department of Education, Government of West Bengal, Calcutta
SHRI S. K. BASU	Development Commissioner, Small Scale Industries, New Delhi
SHRI O. P. BEHARI	Directorate of Marketing and Inspection (Ministry of Agriculture), Faridabad
DR N. R. MUKHOPADHYAY (<i>Alternate</i>)	
SHRI S. K. BHADRA	Indian Leather Technologist Association, Calcutta
DIRECTOR (LEATHER)	Khadi and Village Industries Commission, Mumbai
SHRI P. K. GHOSH	Bata India Ltd, Calcutta
SHRI N. K. MAZUMDAR (<i>Alternate</i>)	
SHRI G. GUPTA	Ministry of Defence (DGI), DGQA, Kanpur
SHRI G. C. KANAUIYA (<i>Alternate</i>)	
SHRI O. K. KAUL	Tata International Ltd, Dewas
SHRI R. SUBHRAMANIAM (<i>Alternate</i>)	
SHRI P. D. MAYEE	Planning Commission, New Delhi
SHRI S. C. LAHIRY (<i>Alternate</i>)	
SHRI P. V. PARVITIKAR	Footwear Design & Development Institute, Noida
SHRI S. RAJA	The Leatherware, Bangalore
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SHRI AJAY SHANKAR	Ministry of Defence (DGOF), Kanpur
SHRI SANJEEV GUPTA (<i>Alternate</i>)	
SHRI G. M. SHARIF	All India Small Scale Tanners and Exporters' Association, Chennai
SHRI M. SRINIVAS	All India Skins and Hides Tanners and Merchants' Association, Chennai
SHRI N. M. ZACHARIAH (<i>Alternate</i>)	
SHRI LAJINDER SINGH, Director (Chem)	Director General, BIS (<i>Ex-officio Member</i>)

Member-Secretary
DR KANCHAN ANAND
Director (Chem), BIS

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Finished Leather Subcommittee, CHD 17:01

Convener

DR D. H. KAMAT

Members

SHRI T. RAFEQUE AHMED

SHRI SHAFEEQUE AHMED

SHRI V. P. NAIMUR RAHMAN (*Alternate*)

SHRI M. ALI

SHRI J. K. MATHUR (*Alternate*)

SHRI S. K. BASU

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SHRI T. KUTUMBA RAO (*Alternate*)

JOINT DIRECTOR CEO (LEATHER)

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SHRI P. K. MUKHERJEE (*Alternate*)

SHRI P. K. KUNDU

SHRI AMAB JHA (*Alternate*)

SHRI RADHEY LAL

SHRI C. K. DURAIVELAN (*Alternate*)

SHRI R. RAJARAMAN

SHRI M. SRINIVAS

Representing

Central Leather Research Institute, Chennai

T. Abdul Wahib & Co, Chennai

Indian Finished Leather Manufacturers and Exporters
Association, Chennai

Ministry of Defence (DGI), DGQA, Kanpur

Development Commissioner, Small Scale Industries, New Delhi

M. A. Khizar Hussain & Sons, Chennai

Khadi and Village Industries Commission, Mumbai

Tata International Ltd, Dewas

Indian Leather Industries Association, Calcutta

Council for Leather Exports, Chennai

Central Leather Research Institute, Chennai

All India Skins and Hides Tanners and Merchants' Association,
Chennai

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BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones: 323 01 31, 323 3375, 323 94 02

Telegrams: Manaksanstha
(Common to all offices)

Regional Offices:

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg
NEW DELHI 110002

Telephone
323 76 17, 323 38 41

Eastern : 1/14 C.I.T. Scheme VII M, V.I.P. Road, Kankurgachi
CALCUTTA 700054

{ 337 84 99, 337 85 61
337 86 26, 337 91 20

Northern : SCO 335-336, Sector 34-A, CHANDIGARH 160022

{ 60 38 43
60 20 25

Southern : C.I.T. Campus, IV Cross Road, CHENNAI 600113

{ 235 02 16, 235 04 42
235 15 19, 235 23 15

Western : Manakalaya, E9 MIDC, Marol, Andheri (East)
MUMBAI 400093

{ 832 92 95, 832 78 58
832 78 91, 832 78 92

Branches : AHMADABAD. BANGALORE. BHOPAL. BHUBANESHWAR.
COIMBATORE. FARIDABAD. GHAZIABAD. GUWAHATI.
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