

ICS 59.140.30
CCS Y 46

HJ

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

HJ 507-2009

**Technical requirement for environmental labeling products.
Leather and synthetic leather**

环境标志产品技术要求 皮革和合成革

(English Translation)

Issued on: October 30, 2009

Implemented on: January 1, 2010

Issued by: Ministry of Ecology and Environment

Table of Contents

Foreword
1 Scope of application
2 Normative references
3 Terms and definitions
3.1 Leather Leather
3.2 Synthetic leather synthetic leather
3.3 Volatile organic compounds
4 Product Categories
5 Basic requirements
6 Technical content

Foreword

To implement the Environmental Protection Law of the People's Republic of China, reduce the environmental and human body during the production and use of leather and synthetic leather products.

The impact of health, the development of this standard.

The standard values of pH and dilution in leather and synthetic leather products, free formaldehyde, extractable heavy metals, chlorophenols, ortho-benzene Residues such as phenols, dyes and odors that can decompose carcinogenic aromatic amines, and volatile organic compounds in synthetic leather products Compounds, organotin compounds, chlorinated benzene and chlorinated toluene impose restrictions on the toxic and hazardous substances in production chemicals.

With requirements.

This standard applies to China Environmental Labeling Product Certification.

This standard was formulated by the Science and Technology Standards Department of the Ministry of Environmental Protection.

This standard is mainly drafted by. Environmental Development Center of the Ministry of Environmental Protection, China Leather and Footwear Industry Research Institute, Hebei Dongming Industrial Group Co., Ltd., Wenzhou Huanghe Leather Co., Ltd., Xingye Leather Technology Co., Ltd., Quanzhou Xinde Leather Co., Ltd., Zhejiang Volkswagen Industry Co., Ltd., Fengan Leather Industry Co., Ltd., Gansu Hongliang Leather Industry Co., Ltd., Zibo Daheng Jiubao En Leather Group Co., Ltd.

Menxixin Microfiber Materials Co., Ltd., Anhui Anli Synthetic Leather Co., Ltd., Wenzhou Huafeng Artificial Leather Co., Ltd., Jinjiang, Fujian Yuhua Microfiber Industrial Co., Ltd.

This standard was approved by the Ministry of Environmental Protection on October 30, 2009.

This standard has been implemented since January 1, 2010.

This standard is explained by the Ministry of Environmental Protection.

Environmental labeling products technical requirements leather and synthetic leather

1 Scope of application

This standard specifies the terms and definitions of leather and synthetic leather environmental labeling products, product classification, basic requirements, technical content and inspection party.

law.

This standard applies to leather and polyurethane synthetic leather.

2 Normative references

The contents of this standard refer to the terms in the following documents. For undated references, the valid version applies to this standard.

GB/T.19941-2005 Determination of formaldehyde content in leather and fur chemical tests
GB/T.19942-2005 Determination of banned azo dyes in leather and fur chemical tests
GB/T 20384-2006 Determination of residual chlorinated benzene and chlorinated toluene
GB/T 20386-2006 Determination of o-phenylphenol in textiles
GB/T 22807-2008 Determination of hexavalent chromium content in leather and fur chemical tests
GB/T 22808-2008 Determination of the content of pentachlorophenol in the chemical test of leather and fur
GB/T 22930-2008 Determination of heavy metal content in leather and fur chemical tests
GB/T 22932-2008 Determination of organotin compounds for chemical testing of leather and fur
QB/T 2724-2005 Determination of pH in leather chemistry test
QB/T 2725-2005 Determination of leather odour

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Leather

A product with performance properties made from animal skin and processed through a series of chemical treatments and mechanical processes.

3.2 Synthetic leather synthetic leather

Made of woven fabric, impregnated with polyurethane resin, dried or post-treated, similar to leather structure and Products with physical and mechanical properties.

3.3 Volatile organic compounds

Analysis by gas chromatography on a non-polar column, retention time between n-hexane and n-hexadecane, and known and unknown waves including them Hairy organic compounds.

4 Product Categories

Products are classified into the following three categories according to their end use.

Class A. Baby products for infants and young children aged 36 months and below.

Class B. Direct contact with skin products, where most of the surface of the skin is in direct contact with human skin when worn or used.

Class C. Non-direct contact with skin products, when in wear or use, does not directly contact the skin or a small part of its surface and human skin.

direct contact.

5 Basic requirements

5.1

Product quality should meet the requirements of their respective quality standards.

5.2

Pollutant emissions from product manufacturing enterprises shall comply with the requirements of national or local pollutant discharge standards.

5.3

Product manufacturers should focus on strengthening cleaner production in the production process.

6 Technical content

6.1

The limits of hazardous substances in products shall comply with the requirements of Table 1.

Table 1 Limits of hazardous substances in products

Classification item

Class A, Class B, Class C pH 3.5~7.5 3.5~9.0 pH dilution difference ≤ 0.7 (detect this when pH7 Inspection method

7.1 Technical content 6.1 The detection of pH and its dilution difference is carried out in accordance with the method specified in QB/T 2724-2005.

7.2 Technical content 6.1 The detection of free formaldehyde is carried out in accordance with the method specified in GB/T.19941-2005.

7.3 Technical content 6.1 The detection of hexavalent chromium in accordance with the method specified in GB/T 22807-2008.

7.4 Technical content The detection of other extractable heavy metals in 6.1 shall be carried out in accordance with the method specified in GB/T 22930-2008.

7.5 Technical content 6.1 The detection of chlorophenol in accordance with the method specified in GB/T 22808-2008.

7.6 Technical content 6.1 The detection of o-phenylphenol in accordance with the method specified in GB/T 20386-2006.

7.7 Technical content 6.1 The detection of dyes that can decompose carcinogenic aromatic amines is carried out in accordance with the method specified in GB/T.19942-2005.

7.8 Technical content 6.1 The detection of leather odor is carried out according to the method specified in QB/T 2725-2005.

The method specified in Appendix E is carried out.

7.9 The detection of volatile organic compounds (VOC) in Technical Content 6.2 is carried out in accordance with the method specified in Appendix F.

7.10 Technical content 6.2 The detection of organotin compounds shall be carried out in accordance with the method specified in GB/T 22932-2008.

7.11 Technical content 6.2 The detection of chlorinated benzene and chlorinated toluene shall be carried out in accordance with the method specified in GB/T 20384-2006.

7.12 Other indicators in the technical content are verified by means of document review combined with on-site inspection.

Appendix A

(normative appendix) Aromatic amines that are not allowed to decompose from dyes under reducing conditions

Serial No.	Chinese Name	English Name	Chemical Abstract Number (CAS No.)
1	4-aminobiphenyl	4-Aminodiphenyl	92-67-1
2	benzidine	Benzidine	92-87-5
3	4-Chloro-o-toluidine	4-Chloro-o-toluidine	95-69-2
4	2-Naphthylamine	2-Naphthylamine	91-59-8
5	o-aminoazotoluene	o-Amino-azotoluene	97-56-3
6	2-Amino-4-nitrotoluene		