

# HJ

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

### HJ 2502-2010

Replacing HBC 23-2004

---

#### Technical requirement for environmental labeling products. Wallpapers

环境标志产品技术要求 壁纸

(English Translation)

Issued on: December 22, 2010

Implemented on: February 1, 2011

---

Issued by: Ministry of Ecology and Environment

## Table of Contents

Foreword

1 Scope of application

2 Normative references

3 Terms and definitions

3.1 Wallpaper wallpapers

3.2 Water-based ink water soluble ink

4 Basic requirements

5 Technical content

5.1 Requirements for raw materials

5.2 Requirements for the production process

5.3 Requirements for the product

6 Test methods

### Foreword

To implement the Environmental Protection Law of the People's Republic of China, reduce the impact of wallpaper on the environment and human health during production and use.

This standard is formulated to protect the quality of the environment and protect human health.

This standard imposes a limit or prohibition on the wallpaper and its raw materials and harmful substances in the production process, and in the product manual the materials used in the construction are subject to express requirements.

This standard has revised the "Technical Requirements Wallpaper for Environmental Labeling Products" (HBC 23-2004). The main changes are as follows.

- Revised the scope of application;
- modified terms and definitions;
- Modified the requirements for inks for wallpapers;
- Modified the requirements for harmful substances in wallpapers;
- Removed the requirement that wallpaper manufacturers must provide wallpaper adhesives;
- Increased the requirement for prohibited substances in wallpapers;

- Increased the requirements for adhesives for wallpapers;
- Increased recycling requirements for waste in the production process;
- Added requirements for product instruction manuals.

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 Academy of Building Research, National Building Materials Testing Heart, China Building Decoration Materials Association Wallpaper Professional Committee, Shanghai Ouya Decoration Materials Co., Ltd., Guangdong Yulan Decoration Materials Co., Ltd., Beijing Te Pu Li Decoration Frame Material Co., Ltd., Beijing Oriental Grammy Wallpaper Co., Ltd., Jiangsu Ai She Wallpaper Company, Jiangmen Yuhua Wallpaper Co., Ltd., Shangmei Shijia (Beijing) Trading Co., Ltd., Zhejiang Wolaifei Decoration Materials Co., Ltd.

Ruibao (Beijing) Decoration Design Co., Ltd., Zhejiang Kexiang Wallpaper Manufacturing Co., Ltd.

This standard was approved by the Ministry of Environmental Protection on December 22, 2010.

This standard has been implemented since February 1, 2011.

This standard is explained by the Ministry of Environmental Protection.

The previous versions of the standards replaced by this standard are.

--HBC 23-2004.

Environmental Labeling Product Technical Requirements Wallpaper

## 1 Scope of application

This standard specifies the terms and definitions, basic requirements, technical content and testing methods of wallpaper-based environmental labeling products.

This standard applies to all kinds of wallpapers based on paper or cloth. It is not applicable to wall felts and other similar wall hangings.

## 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 18585 Interior decoration materials wallpaper GB 18586-2001 Indoor decoration

materials, polyvinyl chloride film flooring, harmful substances, limited HJ/T 201  
Environmental Labeling Product Technical Requirements Waterborne Coatings HJ/T 220  
Environmental Labeling Product Technical Requirements Adhesive HJ/T 371 environmental  
labeling product technical requirements gravure ink and flexo ink

### **3 Terms and definitions**

The following terms and definitions apply to this standard.

#### **3.1 Wallpaper wallpapers**

A decorative material that is applied to a wall or ceiling by an adhesive using paper or cloth as a substrate.

#### **3.2 Water-based ink water soluble ink**

An ink made from a water based binder.

### **4 Basic requirements**

#### **4.1**

Product quality should meet the requirements of GB 18585 and other related product quality standards.

#### **4.2**

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

#### **4.3**

Product manufacturers should strengthen clean production in the production process.

#### **5.1.1 Requirements for inks**

The ink used for the production of the product shall be water-based ink, and the limit of harmful substances shall comply with the requirements of HJ/T 371.

#### **5.1.2 Requirements for adhesives**

Adhesives for the production of products shall comply with the requirements for water-based adhesives for construction in HJ/T 220.

#### **5.2 Requirements for the production process**

### 5.2.1

The substances listed in Table 1 shall not be artificially added during the production process.

Table 1 Prohibition of artificial addition of substances in products

Type of substance

Phthalates

Di(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), o-benzene Butyl benzyl dicarboxylate (BBP) Glycol ether and its esters Ethylene glycol methyl ether, ethylene glycol methyl ether acetate, ethylene glycol ether, ethylene glycol ethyl ether acetate, diethylene glycol Vinyl butyl ether acetate Heavy metal lead, cadmium Benzene, toluene, xylene, ethylbenzene Halogenated hydrocarbon 1,1,1-trichloroethane, carbon tetrachloride, 1,1-dichloroethane, 1,2-dichloroethane Hydrochlorofluorocarbons (CFCs) Hydrochlorofluorocarbon hydrochlorofluorocarbons (HCFCs)

### 5.2.2

Waste generated in the production process should be fully recycled.

## 5.3 Requirements for the product

### 5.3.1

The content of soluble heavy metal bismuth in the product shall not exceed 500mg/kg.

### 5.3.2

The content of volatile organic compounds in the product shall not exceed 10g/m<sup>2</sup>.

### 5.3.3

The content of vinyl chloride monomer in polyvinyl chloride (PVC) wallpaper shall not exceed 0.2mg/kg.

### 5.3.4

The coating of polyvinyl chloride (PVC) wallpaper shall not exceed 300g/m<sup>2</sup>.

5.4 The manufacturer shall clearly state in the product instruction manual.

a) The adhesive used in the construction process shall comply with the requirements of the water-based adhesive for construction in HJ/T 220;

b) The interface treatment agent for the base layer used in the construction process shall comply with the requirements of the interior wall paint in HJ/T 201.